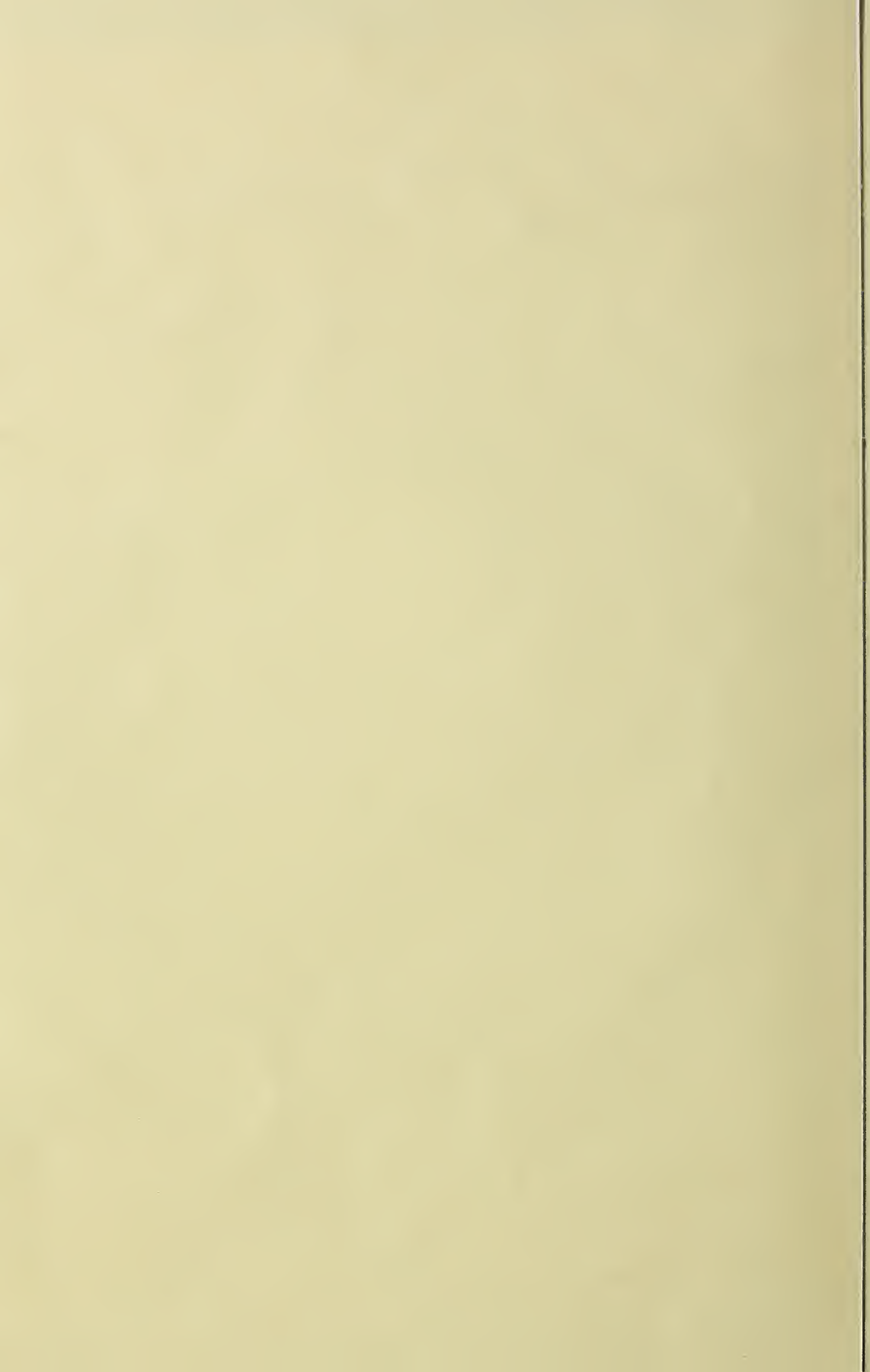


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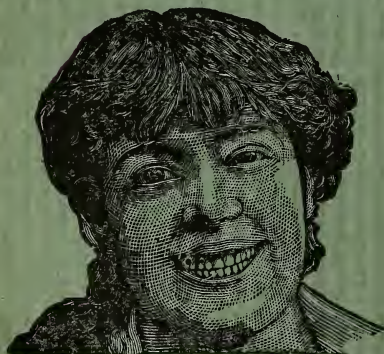
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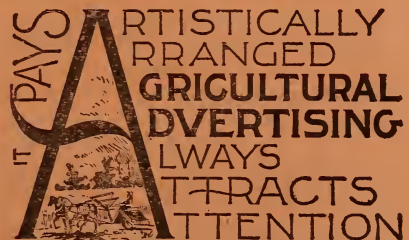
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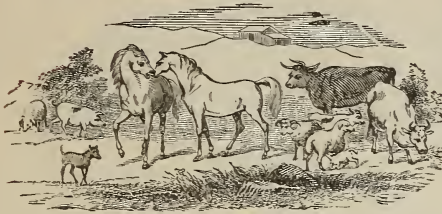
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## Reports from Carroll County.

Mr. Theodore Logue, a prominent farmer near Warfieldsburg, Md., writes:—"A number of cattle in my neighborhood have quite recently had most severe attacks of the Scours or Dysentery; and one of my neighbors lost a valuable cow from this cause though it had the attention of the best veterinary surgeon in this section. Several of my cows were attacked most severely, and a friend recommended the Gleason's Horse and Cattle Powder, which I unhesitatingly pronounced the most wonderful compound I have ever used. Its action was almost in-

stantaneous; and after feeding it only a short while my cattle were not only cured of the scours; but it left them in better condition than they ever were before using it. I shall continue to feed the Gleason's Powder and most highly recommend it."

Mr. Scott N. Lloyd, another of Warfieldsburg's thrifty farmers says:—"I have used the Gleason's Horse and Cattle Powder with best of results, both with Horses and Hogs; and consider it a good condition Powder and freely recommend its use to all Stockmen."

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These reports are only from one section, space will not permit of more at this time though we have hundreds of others just as interesting.

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is when stock of all kinds need a blood purifier and a genial tonic to put them in condition for heavy summer work.

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*Agriculture; Horticulture, Live Stock and Rural Economy,*

Vol. XXXII.

BALTIMORE, March 1895.

No. 3.

A COTTAGE SCENE.

BY MRS. SIGOURNEY.

I saw a cradle at a cottage door  
 Where the fair mother with a cheerful wheel  
 Carrolled so sweet a song, that the young bird,  
 Which timid near the threshold sought for seeds,  
 Paused with a lifted foot, and turned his head  
 As if to listen. The rejoicing bees  
 Nestled in throngs amid the woodbine cups  
 That o'er the lattice clustered. A clean stream  
 Came leaping from its sylvan height, and poured  
 Music upon the pebbles—and the winds,  
 Which gently 'mid the vernal branches played  
 Their idle freaks, brought showering blossoms down  
 Surfeiting the air with sweetness. Sad I came  
 From weary commerce with the heartless world!  
 But when I felt upon my withered cheek  
 My mother Nature's breath, and heard the trump  
 Of those gay insects at their honeyed toil,  
 Sparkling like winged jewelry, and drank  
 The healthful odor of the flowering trees,  
 And bright-eyed violets;—but most of all,  
 When I beheld 'mid slumbering innocence,  
 And on that young, maternal brow, the glow  
 Of those affections which do purify  
 And renovate the soul, I turned me back  
 In gladness, and with added strength, to run  
 My thorn-clad race—lifting a thankful prayer  
 To Him who showed me what there was of heaven  
 Here on earth, that I might safely walk,  
 And firmer combat sin, and surer rise  
 From earth to heaven.

For The Maryland Farmer.

## MARCH WORK,

BY THE EDITOR.

**E**very wide awake farmer is now at his best in thought and action. This is the opening spring month of this year. The cold weather and heavy snows of February have placed that month beyond the pale of spring work for this year, save in a very few exceptional localities blest with very light but rich soil. It is not too late, however, to plow and seed now a good crop of oats—almost the only paying grain crop of this region. In the catalogues are many illustrations of specially named oats with the promise of great yields up to 100 or more bushels to the acre. Some of these from reliable houses are well worthy of trial. In any event, buy good seed. The seed should be clean and heavy, even if it costs two prices, and should weigh not less than 36 pounds to the bushel. Prepare the land carefully; make the bed fine by harrow and roller; give wood ashes, as well as barn manure, if you have it, to the land; sow the oats and if the land will bear it, roll after they have been put in. In this way your crop will be sure.

It is not too late to make the seed bed for tobacco plants, if a spot is chosen of light soil and properly prepared. After the bed is ready to seed, pile on it a large quantity of dry branches and make there a royal bonfire. You need not fear of making too large a fire, if the whole bed is covered several feet high with the fuel. Rake the ashes into the soil and

sow the seed. Such a preparation frees the bed from weeds, besides supplying one of the best fertilizers for the young plants, and will bring them forward with great rapidity. If not sown too thick, or if thinned out properly, the plants will be stocky and just right to set out when the time for the transplanting arrives.

In last month's book we gave at some length the time of putting in all the vegetable crops, and we would refer our readers to that issue. Although the cold and heavy snows have delayed the work in garden and field, the list will hold good in most sections of our State, and especially so in our southern counties and on the Eastern Shore. The following is a list of the hardy vegetables which will bear the cold waves of March and April:

Asparagus,	Beets,
Brussels Sprouts,	Cabbage,
Cauliflower,	Carrots,
Celery,	Fetticus,
Kohl Rabi,	Leek,
Lettuce,	Onions,
Peas,	Parsnips,
Parsley,	Potatoes,
Radish,	Rhubarb,
Salsify,	Spinach,
Turnips,	Sea Kale,

For some years past white potatoes have been one of the best and most profitable crops which can be grown. They do best in a light clay loam and cannot be put in the ground too soon. Many



experiments have proved the fact that two eyes from large potatoes is the best seed, and that they should be planted in rows, one foot apart in the row. As near level culture as can well be given, is the standard direction now; and second crop seed is having quite a "boom" among the seedsmen.

If the hot beds were not started in February, start them now, and sow in them tomatoes, egg plants, peppers, sweet potatoes, lettuce, cabbage, radish, and whatever is wanted for early planting. We have heard of excellent results from planting sweet corn in paper boxes in the hot bed and transplanting them when danger of frost is past; and many practice this method with cucumbers and melons.

During this month, whenever the condition of the ground will permit, put in the plow and have everything ready for the season's work as soon as the warm days arrive. In this region one of the largest crops planted is peas; some even putting in hundreds of bushels; and this month should not be allowed to go by without an effort to finish up the crop of field peas. In the garden, peas should be sown in successive crops, from the middle of March to the middle of July. Do not be afraid of planting peas too deeply, for an average of four inches deep is about right. When planted thus deeply, they thrive best and bear more abundantly than when planted shallower.

A general examination of every part of the farm and farm buildings should be in order this month. Particularly should the orchards have attention, and any pruning of the trees which is needed should no longer be delayed. We do

not advise the cutting of grape vines so late as this; but currants may be trimmed, and the cuttings planted out, for we do not advise that a single bud of last year's currant stock should be wasted—especially if of the Cherry, Fay, Victoria or North Star—as the time is fast approaching when currants will be in very large demand, and plants will command a good paying price.

We believe in every farmer surrounding his home with everything to make himself and his family contented and happy, and this is the month in which to plan for this purpose. Have your garden arranged with this in view; and if not already there, set out now beds of strawberries, and blackberries, and raspberries, of currants and gooseberries, of asparagus and rhubarb; and prepare also for every vegetable luxury for the home table, from early spring lettuce to the latest sweet corn, gathered after frost and set in a corner of the cellar for winter use.

No country home should ever be without an abundance of the blessed fruits which have been given to every industrious and thrifty worker; and happy is he who has learned that nothing which the ground can produce is denied to him, if he chooses to have it.

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For The Maryland Farmer.

### FROST FORECASTS.

BY ALBERT E. ACWORTH.

With frosts all are familiar. They have seen thermometers, and on them seen marked "freezing point." Text books tell us that frost is deposited when the grass, plant, shrub or tree is cooled down to the freezing point or below;

and the air also, when it deposits moisture, if saturated, on their surface as dew or frost. "Black frost" meteorologists define as dew deposited in the form of ice, with the objects only cooled down a degree or two below thirty-two degrees.

Now in April, when frosts are most detrimental, "the dew point," at which frost and dew is deposited, is about  $19^{\circ}$  below the mean temperature at 2 P. M. Frost occurs here at any time when the mean thermometer is not above  $45^{\circ}$ , nor the dew point either. Should the dew point at 2 P. M. be  $45^{\circ}$ , frost may be anticipated next morning. Should it be under  $40^{\circ}$ , frost may be usually expected; and should it be  $36^{\circ}$  or  $37^{\circ}$  then frost is certain, however high the thermometer, unless a cloudy night or strong wind prevents.

Those without wet bulb thermometers, and tables to use with them, should procure them at once, as careful attention to these will save them dollars in a few years by guarding against frosts, that otherwise they could not do.

An approximate value can always be had by subtracting twenty ( $20^{\circ}$ ) degrees from the 2 P. M., or midday temperature. The normal temperature for April is  $55.6^{\circ}$  and for October  $58.3^{\circ}$  at Princess Anne, Md., for 20 years, and is here one degree higher than that of Baltimore, where for October it is fifty ( $57^{\circ}$ ) seven degrees.

There are many conditions in which frosts may occur when the thermometer is very far beyond the freezing point.

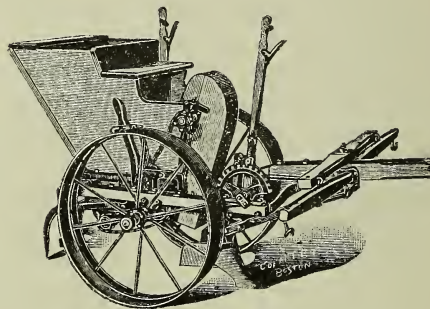
In a well ventilated thermometer room, constantly exposed to the influence of the atmosphere, frosts have occurred when the minimum thermometer has

been forty nine degrees on the morning of its occurrence, and very many when it has been above forty ( $40$ ) degrees.

The frost question is one that deserves the best thought of the Weather Bureau, so as to forecast its occurrence just as rains are now.

#### THE "SUCCESS" POTATO PLANTER.

The "Success" Potato Planter manufactured by the A. B. Farquhar Co., of York, Pa., was tried thoroughly last year and everywhere was pronounced the most complete Potato Planter in the market. It marks, furrows, drops and



covers all in one operation. The machine is extremely simple and wonderfully thorough, reliable and accurate in its planting. The operator sits on the box and drives the horses. It is so simple and easily worked that any one can understand and plant with it. It does not prick and crush the seed; the planting fingers lift the potatoes up and out of the hopper.

Take advantage of modern implements and accomplish as much in a single day as required weeks, months, or years formerly.

For the Maryland Farmer.

### SCIENTIFIC FERTILIZATION.

BY DR. M. G. ELLZEY.

President of the Maryland Farmers' Alliance.

[Article No. 8 of a Series of Papers on this Important Subject.]

Those who have done me the honor to read the foregoing papers of this series will probably not be surprised at the statement that little has been satisfactorily made out as to the *modus operandi* of lime as a fertilizer, as I have unhesitatingly advanced the opinion that our knowledge of the whole subject of plant nutrition, from beginning to end, is in an unsatisfactory and unmodern state, and needs careful, competent, and thoroughly scientific re-study. Lime, necessarily present wherever any sort of a crop can be produced, is in many soils present in very meagre supply. In fact in quantity insufficient, or condition unsuitable, to supply the demand of the crop for the necessary amount for the full sustenance of its nutritive functions. In such a case its fertilizing effect may be due in great part to the supply of this deficiency. But it is certainly true that in many instances its chemico-physical effects upon the soil as a whole, or upon particular constituents of it, are of much greater consequence than its effects upon the crop as plant food. It is obvious to the senses that a loose, light, ochreous soil is much stiffened and compacted by a dressing of lime, and as a consequence, winter killing of the crop of grass or grain, a constant source of serious loss in the cultivation of such soils, is much lessened. It is equally obvious that waxy clays are rendered more friable and porous by applications of lime.

The value and importance of such im-

provements in the condition of the soil are certainly known to be very great, in particular cases. Another effect of lime commonly mentioned is, that "sour" lands are "sweetened" by it—doubtless true if there are any "sour" lands; but an acid reaction of the soil is a thing very seldom to be found. Such an effect of lime is practically very meagre and of little consequence. It has been supposed that lands were "sour" which produced sour plants, sheep sorrel for example, and lime has been recommended upon theoretical grounds to destroy sorrel; but it will not destroy it, and the land which grows sheep sorrel is not "sour." The oxalic acid which makes the sorrel sour is not a constituent of the soil, but a product of the plant; it is a compound, the constituents of which are mainly derived from the atmosphere. Does anybody think the soils are "sweet" where sugar canes grow, or that sugar is a constituent of such soils?

Sweetening sour lands is scarcely an important function of lime. It is generally stated that the most important fertilizing effect of lime is, that it promotes to a very great extent the decomposition of organic matter, and so supplies plant food—especially combined nitrogen—to the growing crop. In the sense in which this is intended the effect has, I believe, been much overrated. It appears to be believed that lime at ordinary temperatures produces, more slowly, the same chemical effects upon organic matter, as when the substances are heated together in a crucible; and that a copious evolution of ammonia results from the application of air slack lime to a soil containing organic matter.

I once made a mixture of equal parts



of quick lime powdered and "fish scrap," such as is used for fertilizer; which I placed in a wide mouthed jar in a warm room keeping moist litmus suspended in the upper part of the jar continuously for two months without the slightest change in the test paper; and thus demonstrated that the decomposition of the fish scrap with evolution of ammonia in two months time had been without effect upon a most sensitive test. I at the same time tested another mixture of fish scrap and the soda lime mixture used in actual analysis to convert the nitrogen of fertilizers into ammonia, by calcination; but there was not the slightest trace of ammonia developed.

Sir John Bennett Lawes reminds us that we are not to expect to meet with the same effects in the ordinary conditions of temperature and exposure, which we encounter in field culture, which are produced in our laboratories with "caustic alkalis and red hot crucibles." The real influence which lime exerts upon organic matter in field culture is indirect. It supplies the faint degree of alkalinity essential to the activity of the nitric microbes which effect the decomposition of organic matter with the production of nitric acid, and not ammonia. This, except in the special cases mentioned already, I believe to be by far the most important function of lime applied as a fertilizer, viz: the promotion of the activity of the nitric ferment; and by no means, the chemical decomposition of organic matter with evolution of ammonia.

One of the main effects of lime on the soil itself is the release of potash from non-available combination, rendering it available to growing crops; and this

is of very great importance, especially in the treatment of clays of feldsparthie origin, which contain a very large percentage of potash.

In the practical application of lime as a fertilizer, its tendency to percolate downward in the soil, being thus somewhat rapidly withdrawn from the tilth and buried deeply in the subsoil, must not be overlooked. In consequence of this, moderate applications frequently repeated are to be preferred to heavy applications at long intervals. Neither ought lime to be buried deeply by the plow, but rather by means of a harrow mingled with tilth, on the surface, or near it.

It has been supposed that applications of lime along with farm yard manure would be bad practice, because the lime would so hasten the decomposition of the organic matter that the ammonia would be evolved so much faster than the crops could assimilate it that much of it would be lost. Nearly fifty years ago Leibig pointed out that organic matter decomposing under natural conditions of temperature and exposure, as in field culture, yields nitric acid, forming nitrates of alkalis, and not ammonia. In actual practice it has been found highly beneficial to apply lime with manure. There is no doubt the alkalinity thus imparted enables the nitric microbes to work more effectively; whereas unless neutralized, as formed, by alkali, the organic acid, developed by the fermentation of the litter in the manure would much impede their action.

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Dont depend alone upon your own hands, or the labor of other men's hands; use steam power if possible.





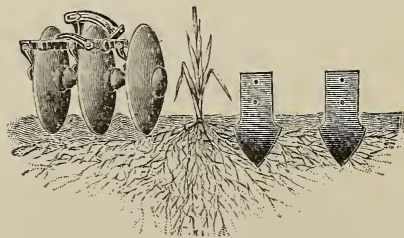
DEERE RIDING DISC CULTIVATOR.

#### DEERE RIDING DISC CULTIVATOR.

Another revolution over old methods. For years the several Manufacturers of cultivating implements have struggled to produce a practical tool of this class, but it remained for the "Deere" to overcome all objections and offer what is guaranteed "an absolute faultless disc cultivator." With this cultivator, no matter what condition the ground, it is thoroughly pulverized. Corn stalks and trash are cut and turned under instead of being dragged along as in the case of the shovel cultivator. Work is begun

from one to two days earlier than with the shovel cultivator.

When the ground is drv, with the "Deere disc" you continue to turn over



and pulverize the soil, keeping it moist, and the corn growing for two to three weeks longer without rain than can be

done with any other class of cultivator. Its draft is lighter and more ground is covered. It is furnished also as a walking cultivator which is invaluable in potatoes or other small plants where rows are narrow. By applying to the general Agents—Rawlings Implement Company, 209 S. Charles Street, Baltimore, Md., circulars with every needed information will be afforded our readers.

For the Maryland Farmer.

#### **EASTERN SHORE OF MD. & VA.**

We have received a very suggestive article in reference to the attractions of this region for immigrants, from the pen of F. H. Dryden, a prominent real estate broker of Pocomoke City, Md., who within five years, has settled over two hundred thrifty farmers in Somerset and Worcester Counties, Md., and in Accomac County, Va. These farmers have come from Nebraska, So. Dakota, Ohio, Pennsylvania, New York, New Jersey, Kansas, and other Western States. He very tersely enumerates the inducements that section of our State offers, as follows:

1. The mild and agreeable climate.
2. The ease with which the soil can be cultivated, and its general good character for fertility when properly attended to.
3. The earliness and length of the season, the long autumns giving the farmer abundant time to prepare for the succeeding season.
4. The variety of crops that may be grown, the soil and climate being adapted to all the ordinary farm crops, fruits and vegetables. Peaches especially thrive well, and are not attacked by "the Yellow," which is here unknown.

5. The nearness to markets, the most distant point being within seven to twelve hours of Baltimore, Philadelphia, and New York markets.

6. The advantage to be attained by settling in a country already well populated, having schools, churches, post offices, etc., etc., within close proximity to all sections.

7. The exemption from taxation for constructing railroads, school houses, county and town buildings, these being already erected. The majority of the houses are built of native pine, and can be erected at moderate cost. Groceries, provisions, etc., can be purchased at a very small advance over city wholesale prices, while fish, oysters, clams, crabs, diamond back terrapin and wild fowl are obtained at prices that place them within reach of the humblest laborer. Notwithstanding all these advantages good farm land, with good improvements, can be bought from \$10 to \$25 per acre.

#### **POSSIBILITIES**

##### **IN FRUIT-GROWING.**

Fruit-growing offers many rewards in the way of great possibilities to those who get the most out of it. The careful planter and the liberal feeder and culturist as a rule gets what he is working for.

In all kinds of fruit culture great crops are possible when the circumstances are created to produce them. A well cared for strawberry plantation often yields wonderful results—and the same can be said of raspberries, blackberries, currants, gooseberries, etc., and yet it is not best to engage in fruit-culture with that as an incentive; figure on a fair crop, and if



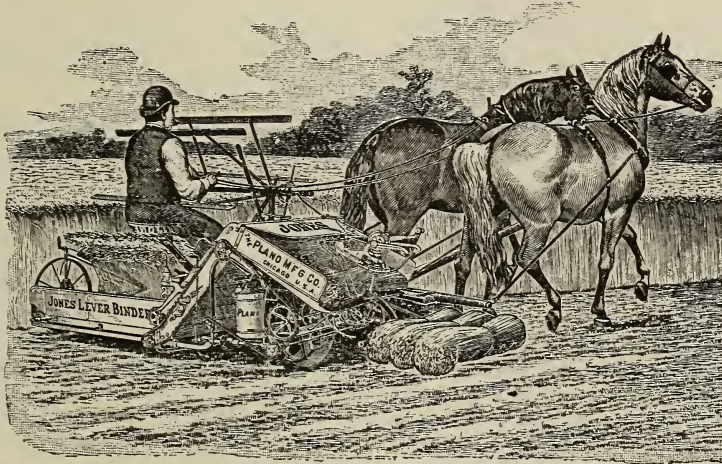
you get a large one so much the better. I would not be understood to discourage aiming high—not by any means—simply to caution the inexperienced against building on these exceptional yields.

Do not plant too largely, and give what you do plant close attention. We know a man who may not be termed a model fruit grower, yet this man makes the most of what he has, and is successful.

Good varieties, good plants, suitable ground and proper care will produce fine fruit. Economy in labor and land is very

the road he can see the value. To those who are about to establish themselves in this interesting industry, I would say, go slow at first; make small beginnings; gain your knowledge as you go; study your location and soil so that you will know better than any one just what is possible to accomplish with it.

It is always best to plant of those varieties that are known to be reliable, not only as producers of fine, salable fruit, but as hardy and well adapted to general soils and climates. Do not plant novel-



JONES LEVER BINDER.

essential to success, and yet one must not be penny wise and pound foolish. There must be thorough work done and plants must not be crowded. It takes some thought and judgment to know just how much work and money to bestow upon a crop to make the most possible profit from it.

It is difficult for the inexperienced to realize the great value of experience in fruit growing. After one has traversed

ties extensively. If you have a desire to try them moderately, I would do so.—Farm, Field and Fireside.

#### JONES LEVER BINDER.

The novelty of this machine over others is that it abandons the cumbersome chain gearing substituting their most simple lever movement which accumulates power, by increasing leverage, applying greatest power at the moment



of heaviest strain, when compressing, tying and discharging bundle. By use of their famous fly wheel, motion is kept up after horses stop, elevating, saving and binding the grain; also keeping the binder in motion while turning a corner; also making it run more evenly and lighter. This machine is made by the Plano Manufacturing Co., of Chicago.

#### FARMERS' CONVENTION.

The Twenty Third Annual Convention of Farmer's was held at Sandy Springs, Md., February 19. Mr. Edw. P. Thomas, President, with Messrs. J. J. Shoemaker and M. O. Stabler, Secretaries. A number of farmers were present from the adjoining counties.

Mr. C. E. Bond read an article on public roads. He advocated spring work on roads when the ground is soft and the earth thrown to the centre would remain where it was placed. A macadam road was the simplest to construct. Mr. Bond closed his remarks with the following directions for road repairing:

"Begin early in the spring, scrape the ground well and crown about one foot; under no circumstances place earth on the road when it is dry and hard; after every rain go over the road and make needed repairs; dig up all heavy stones from the road bed and in cleaning the drains throw the earth away from the road. In repairing stone roads be sure there are no hollows in the bed and always put the stone in the middle, broken to an even size; keep repairing stones in piles about 100 yards apart and have the stone broken to a uniform size."

The question of the value of Crimson Clover was discussed. Mr. Jas. S. Robinson, of the Agricultural Experiment Station said Crimson Clover is invaluable as a restorer of worn out lands. It can be grown between crops so that no time will be wasted. Prof. Patterson described Crimson Clover as a great fertilizer.

Mr. R. H. Miller, director, gave interesting results of experiments with the clover. He said that three plats of ground of equal size were taken. One was used without any fertilizer, another with one dollar's worth of nitrate of soda and on the other one dollar was expended in crimson clover. The plats were planted with corn with the following result:

The yield from the first plat was 24 bushels, from the second plat 30 bushels and from the third 43 bushels. Similar results were obtained when potatoes were treated in the same manner, the increase where crimson clover was used being valued at \$9.50 an acre.

The following committees were appointed to serve for the ensuing year.

Committee to attend the game convention to be held in Baltimore—R. H. Miller, Chas. F. Brooke and Charles Disney.

Committee on Kensington and Ellicott City Electric Road—Asa M. Stabler, E. P. Thomas, C. F. Brooke, F. Thomas and Nicholas Miller.

Committee on Potato Culture—R. H. Miller, C. F. Kirk and A. M. Stabler.

Committee on Railroad Crossing—W. W. Moore, W. E. Muncaster, R. B. Farquhar and Fred Stabler.

Committee on Washington Markets—J. B. Hallowell, C. F. Kirk, W. B. Chichester, Jr., Frederick Stabler and W. E. Muncaster.

Committee on Public Road Legislation—W. E. Manatee, Charles Albert, A. M. Stabler, O. H. P. Clark, R. B. Farquhar and G. E. Bond.

There is no telling where the trouble resulting from a mortgage will end. An exchange tells of a man who mortgaged his farm to get his wife a pair of ear-rings. The wife took in washing to pay interest on the mortgage, and the first day lost one of the diamonds in the suds, and tried to hang herself in the barn but the rope broke and she fell on a \$150 cow and broke its back.

Compiled for the Maryland Farmer.

### INTERESTING ITEMS.

The fire engine was invented in 1685.

Bread was first made with yeast in 1650.

Paper was first made from linen in 1302.

Glass windows were used for lights in 1180

The telegraph was invented by Morse in 1832.

Cotton was planted in the United States in 1759.

Woolen cloth was first made in England in 1341.

Telescopes were first invented by Porta and Janson in 1590.

The circulation of blood was first discovered by Harvey in 1610.

In Kiew, Russia, a special trolley has been devised to cut the ice from an overhead wire.

Belgium and Great Britain have nearly identically the same population to a given area.

The Pennsylvania Railroad, east of Pittsburgh and Erie, comprises a total trackage of 8,004 miles.

A newspaper was first established in 1629.

The barometer was invented by Torricelli in 1535.

The use of windmills for generating electricity, was first suggested by Sir Wm. Thompson in 1881.

Where cyclones occur in the west they sometimes lift every thing from the farms except the mortgages.

The Empress of Australia has been leading a lonely life in Algiers, taking all her meals alone, and walks six hours every day.

The late M. de Giers, Russian Minister for Foreign Affairs, was a Lutheran, and was descended from a Swedish family settled in Poland.

The production of the world's gold mines in 1893 was \$155,500,000; it was \$177,000,000 in 1894, and there is no telling how high the figures may go in 1895.

The largest copper smelting property in the world is at Anaconda, Montana. About 4000 tons of ore are daily treated at the smelters, which are in continuous operation.

It was Marshall Canrobert who died recently in France who made the historic remark: "It is magnificent, but it is not war." The words were uttered as he watched the charge of the six hundred at Balaklava.

There are more than one million windmills in actual operation in the United States. Twenty different firms are engaged in the manufacture, and their combined sales exceed one hundred thousand mills each year.

It is stated that some of the rivers in Uruguay are so impregnated with the roots of Sarsaparilla as to possess sanitary qualities for bathing purposes, and the people who drink these waters are exempt from skin diseases.

Mark Twain's hands were photographed lately and copies sent to each of four experts in palmistry. One discovered "a strain of Southern blood dating back 240 years." Of the four, only one discovered any sense of humor.

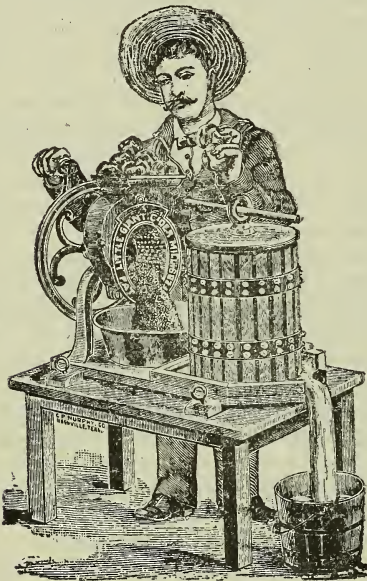
The Atlanta chamber of commerce is agitating the question of appealing to the Legislatures of Massachusetts, New York and Pennsylvania to repeal the laws in those States prohibiting the investment of savings bank funds in Georgia.

Lord Kelvin holds that the internal heat of the earth has nothing to do with climates. The earth, he says, might be of the temperature of white hot iron 2,000 feet below the surface, or at the freezing point 50 feet below, without at all affecting a climate.

"The London New Age" tells this story; "Once Mr. Gladstone had been cutting down a tree in the presence of a large concourse of people, including a number of 'cheap trippers.'" When the tree had fallen and the Prime Minister and some of his family who were with him were moving away, there was a rush for the chips. One of the trippers secured a big piece and exclaimed: 'Hey, lads, when I dee this shall go in my coffin.' Then cried his wife, a shrewd, motherly old woman, with a merry twinkle in her eye: 'Sam, my lad, if thou'd worship God as thou worships Gladstone, thou'd stand a better chance of going where thy chip wouldna burn!'

**THE LITTLE GIANT CIDER MILL.**

The illustration herewith presented is that of a new cider mill and press invented and patented by Mr. Otis Everett Davidson, and being introduced by the "Little Giant" Cider Mill Co., of Nashville, Tennessee. This ingenious and clever cider mill is intended only for family use, not being designed for wholesale or other extensive cider making. The cutter is made of tinned steel, and



by the peculiar eccentric motion of the chopper, cuts the fruit and separates the white meat of the apple from the peeling, stems and seeds, carrying off the cut apple before it touches any part of the hopper or other metal from which it might be stained. This is a feature not necessary in the making of cider, but in preparing fruit for cooking purposes is very convenient.

The boards and crate are of well sea-

soned hard-wood, the castings are of gray iron covered with water-proof varnish to prevent rust, while the other metal parts are of wrought iron. In the pressing of the fruit there is also an advantage, as the bottom of the crate having a nut in it, is brought up toward the top with the screw, the pumice being brought up and away from the cider, between the top and bottom of the crate, are taken out of the top of the crate. The manufacturers state that the mill and press are strong, besides being light and convenient to carry, thereby lessening the danger of its being left in the orchard to rust and rot. Its extremely low price will not fail to bring it quickly and permanently into use.

#### HOW CAMEMBERT CHEESE IS MADE.

The Camembert, the King of all cheeses, comes from the solitary valley of Normandy, across the Seine, when you enter France at Havre.

You reach the valley of Camembert along the winding course of a clear rivulet, by whose banks pear trees begin to appear. Soon you pass through the hills and the great open valley, divided by the well paved highway, lies before you. The houses are close to the road, with the inevitable apple and pear trees around them. In the morning hours of the fine season great tin pails stand around the open doors full of milk. Under the little open shed beside, the new cheeses are dripping. Two millions of these little, flat, round cheeses are made each year and sent away to Paris and to all parts of Europe. And many millions more of imitation Camembert cheeses are made



elsewhere. The real Camembert—that which won universal renown—was made by the farmers at their homes, and, of course, by hand. Unless you go to the valley itself; it is almost impossible to obtain one of these cheeses now, for most of the farmers have learned to club together, their milk is carried in cans to a central factory, the milk of different herds of cows feeding in divers pastures is mingled together, and the delicacy of the oldtime Camembert is lost.

The cows are milked in the morning, at noon, and before the sun has set. The three milkings of evening, morning and noon are mixed together and at once made into cheese. In the home made article, the milk has not been shaken or exposed to sun or cold, and the result has something subtle and unctuous in flavor. But in the factories which have come up of late years the temptation of profit by everything is so great that even a part of the cream is taken from the milk to be made into butter. This gives those inferior dry Camemberts which are sold at a franc apiece in the Parisian markets. In the old time each farmer carried his cheeses of the week on every Monday morning to the market of Vimoutiers. He paid two fifths of a cent for every dozen of cheeses he brought with him to have a place to sell them himself. Husband and wife stood together, and when their cheeses were sold they celebrated the weekly event by a dinner in the village hotel. Nowadays they give their milk for about four cents a quart to the factories. It brought them the equivalent of five cents under the old method, but then they had the trouble of making the cheese and curing it and the expense of going to the market, of bad sales, and the din-

ner at the hotel. The Norman peasant is thrifty. He does not care to keep his Camembert up to the highest standard, in view of the temptations which the factory offers him.

The Camembert is not one of the oldest of the Norman cheeses. It was invented during the French Revolution by a brave farmer's wife, whose grandchildren are still connected with its making. This is Mme. Harel, who attended to the dairy on her husband's farm here in the valley. Her first improvement was to leave all the cream in the milk, except in the months from May to August, when what are called "lean" cheeses are made. The good Camembert must still be bought from the product of the Winter season.

The milk, just as it comes from the cows, which have been feeding on the lush grass of the same pasture, is stirred gently after the rennet to curdle it has been poured in, and is then left to stand in the great buckets closed by a wooden cover. The curding has lasted long enough when the finger applied to the surface no longer receives a stain of milk. The mass is at once poured into the little forms, which have openings at each end through which the whey can drip out. These forms are hung up in nets made of rushes until the dripping is over. Then the cheeses are carefully salted and left to dry from twenty to twenty five days. Mme. Harel turned over this part of the work to the market dealers, carrying the cheeses to be sold when they were quite new. But this is nowadays done in a drying room of the factory.

By the third day numbers of little brown points begin to appear on the sur-

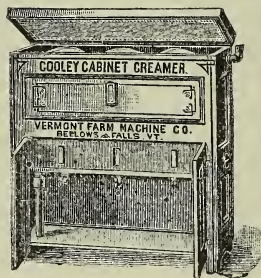
face of the cheeses. After a week fine white vegetation already covers them—the mold, which is the true sign of the Royal Camembert. When the cheeses begin to sweat and no longer stick to the fingers, they are taken to a cellar, where they are left piled on boards, under careful inspection day by day. When the expert declares them done, each one is wrapped in paper, six are bound together in straw sheaves tied with cord, and these are packed away in wicker baskets or wooden crates to be sent to the distant markets.

An average Camembert cheese weighs three-fifths of a pound and to make it nearly two quarts of milk are required. A dozen of these cheeses bring to the farmer something like \$2. and a good cow through the season will be worth to him \$100 in cheeses alone; not to speak of the butter from the Summer's skimming. The whole production in this little valley amounts to nearly \$1,000,000 each year. Two things are in the farmer's mind as necessary to the true Camembert. The cheese must not be large in size, for it would become tasteless. And the cows must be kept out in the open fields all the Winter long, for if brought to the stable their milk would lose the precious quality which it derives from the savory grass of the valley. There is also the superstition, or perhaps the true belief derived from experience, that, just as in the wine countries, certain slopes of the hillside more exposed to the sun give a finer flavor to the cheese made from the milk of cows pastured there. But this scruple is dying away, and you cannot easily have now your Camembert cheese identified with a particular "cote d'or."

—*Sterling Heilig, in N. Y. Recorder.*

#### A CREAMERY.

The outdoor work of the farm is supplied with innumerable helps; but the work in the house does not seem to be equally blessed in this respect. With the advent, however, of the creamery for the systematic setting of milk and rapid



raising of cream, a great part of the labor incidental to home butter making is avoided. The Maryland Agricultural Co. gives us the above illustration of the Cooley Creamer as at present the most popular creamery on the market.

For the Maryland Farmer.

#### TEACHINGS IN THE AGRICULTURAL AND MECHANICAL COLLEGES.

Many arguments have been advanced in support of the present system of teaching in our Agricultural Colleges; the teaching of all other branches of learning, including various languages modern and classical, as well as the teaching of Agriculture and the Mechanic arts, for which latter items the Colleges were designed by the Government.

When the first grants were made by Congress, it was understood that the country was well supplied with literary universities, law schools, schools of medicine, academies and colleges for the

general education of the people. This fact was not questioned. The great need was the institution of a high grade college for the mechanic and the farmer; for, after all, the prosperity of the country depends upon these, and these needed the extra cultivation which the ordinary institutions of learning did not supply.

You have had many special pleas in the Maryland Farmer during the past two years, in behalf of the literary portions of the teachings in our State Agricultural College. Suffer me to suggest that in the opinion of the farmers and mechanics, who were the parties for which Congress appropriated these funds, the College would have fully enough to do, if it was wholly devoted to the teaching of Agriculture and Mechanics. Let other educational institutions devote themselves to the literary departments of learning; but let this one develop the great interests upon which at least seven-tenths of the prosperity of the country are based.

Agriculture has received and does now receive considerable attention in these colleges although not half as much as it might profitably receive; but let the farmers take care of that. I would call attention to the fact that the mechanical department has a work before it which has scarcely been touched upon by these institutions. I think they could and should graduate skilled mechanics in all the departments of industry; so that mills for the cotton and wool goods of the country, and manufacturing institutions for implements and vehicles of every description, and for all the various productions in iron and steel, in copper and brass, should have men fitted in every way to manage them to the best

possible advantage. At present I know, as myself a partially skilled mechanic, the very great necessity of a thoroughly educated class of mechanics in our country.

In Europe, the basis of their prosperous manufacturing centres, located in favorable or unfavorable sections of the country, is in the fact that they are managed, carried on and every part of the work manipulated, by skill educated in the best schools of mechanics and engineering. There is no question about this fact; and the same prosperity could be had here with the same educated skill, whether in Georgia or Alabama, whether in Maine or Missouri.

We have the institutions built up and supported by the Government of the country in the most liberal manner, and I call upon you, as editor of the Maryland Farmer, to demand that these Colleges shall take this matter in hand, in a practical adaptation of their teaching to this work. Graduate for the country mechanics fully equipped to meet in a practical way the best work sent here from the skilled workmen of the old world. The country is spending millions of dollars to secure this end, and it should not be frittered away in teaching living or dead languages, or solving useless problems, of no practical value in agricultural or mechanical life.

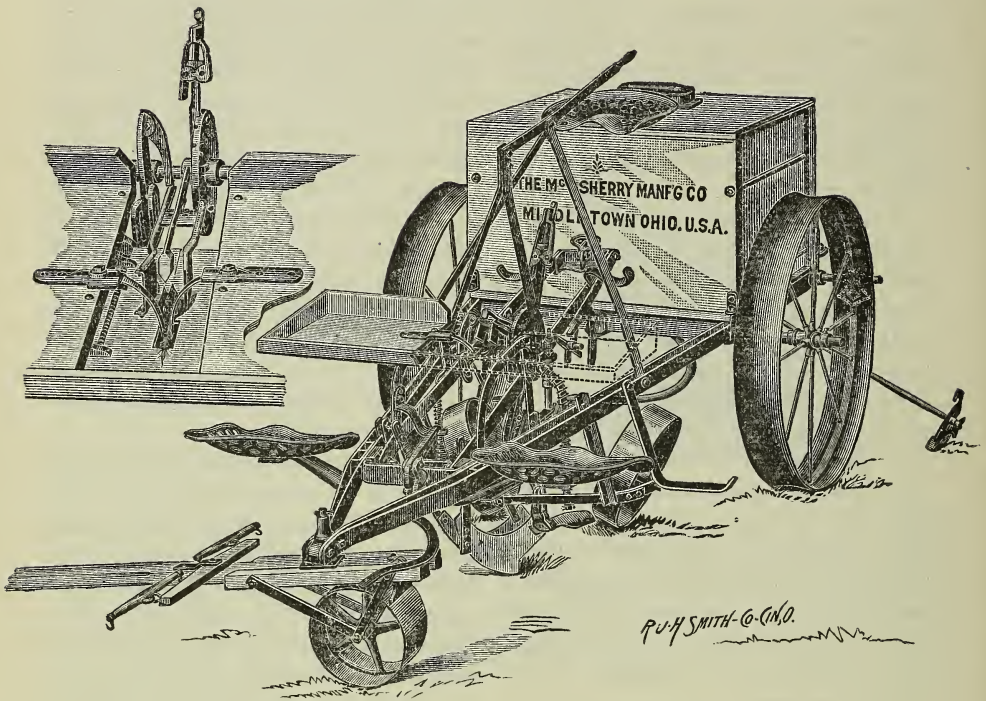
J. P. TURNER.

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#### HOGS.

The government report on hogs shows that there were 1,000,000 less January 1, than on the same date in 1894, and 8,000,000 less than in 1892. On the 1st of January 1895 there were 44,165,716 hogs in the United States.





### McSHERRY AUTOMATIC TRANSPLANTER.

#### McSHERRY AUTOMATIC TRANSPLANTER.

This machine which is designed for setting out cabbage, tomato, tobacco and other plants, is almost human in its operation. It is the only automatic machine manufactured and has adjustable fingers with rubber cushions, to handle plants without injury to them. It opens the furrows, sets the plants, waters and covers them and marks off the next row. The Maryland Agricultural Co., of this city, who are the general agents for this machine, kindly loaned us electro of above,

and will give full details to anyone making inquiry.

For the Maryland Farmer.

#### FARMERS AND BI-METALLISM.

BY JOHN HENRY KEENE, JR.

In reviewing the recent work of the French Economist (Duke de Noailles) I find he states respecting bi-metallism that he is frank enough to say that he is not a friend of the silver men, but he recognizes the fact that "farmers are bi-metallists in spite of the impossibility of any sound principle for maintaining a fixed

ratio between silver and gold," and that gold monometallism will never be accepted as the final solution of the monetary problem.

An ordinary life time would scarcely afford opportunity for an industrious student to examine the multitudinous array of economic disputants respecting the laws of finance. However ignorant mankind is doomed to remain the malevolent consolation remains, also, that by their absurd and mischievous fallacies these disputants have mutually exterminated each other. This is the conclusion of the whole matter: when his army in Egypt was thrown into confusion by the savants, who declared that clouds of dust on the horizon were caused by the approach of the enemies' army, Napoleon exclaimed, "The savants and jackasses to the rear, my brave veterans to the front." The dust, it turned out, was caused by a wind cloud. What we want are downright facts, more than anything else, and generally downright facts may be told in a plain way. The economists do not imitate the example of the seven wise men of Greece who were famous the world over for their wisdom. They acquired all that fame by expressing all their thoughts in a single sentence, consisting of two or three words. The French Economist says he "recognizes the fact that farmers are bi-metallists" in spite (according to his theories) of the impossibility of any sound principle for maintaining a fixed ratio between silver and gold."

It is a farther reaching coincidence than has occurred perhaps to this learned writer, that without concert of action or consensus of opinion, the farmers of Germany, France, England and Ameri-

ca have been with one accord clamoring for bi-metallism. That no "soundness nor unsoundness" of the principle "for maintaining a fixed ratio between silver and gold" has ever entered into their brains—Why? because farmers deal with down right facts. The farmer knows that the amount of money current in a state represents everything that is purchasable on the surface of the globe; that if the quantity of purchasable articles increases, while the quantity of money remains the same, the value of the money increases, in the same ratio; if the quantity of the money increases and if the quality of purchasable articles remain the same, the value of the money decreases in the same ratio. The farmers know that what Mr. Edward Atkinson, the monometallist, has said, is true. "The free coinage of silver would inflate the prices of farm products and thus decrease the purchasing power of gold."

The practical farmer knows that low prices are one of the causes of contraction; he reflects that from 1866 to 70 a farm hand's wages equalled \$42 a month and that 21 bushels of wheat paid him. In 1892 \$19.50 a month was paid; but to pay him, it took 26 bushels of wheat. That is the farmer's standard of value. In 1866 there was plenty of money in circulation to transact business upon a cash basis; in 1892 there was so little money in circulation that business had to be transacted on credit. The farmer knows that falling prices consigns the laborer to poverty, and deprives society of that vast sum of wealth which lies dormant in the vigorous arm of the idle workman. Raise the prices of farm products, encourage the farmer to greater action, and he produces

food and clothing; transportation rates rise; labor is paid living wages, and prosperity comes. When you ask the farmers throughout America why the remonetization of silver is being agitated and is growing in Germany as in America, they do not pause to enquire about the impossibility of any sound principle for maintaining a fixed ratio between silver and gold; but they show beyond doubt the relation between the face of silver and the face of prices in all our great agricultural staples. The farmer goes to the record, and he triumphantly exhibits this table:

Fiscal Year Ending June 30.	IN THE HOME MARKETS			
	Cotton Pound	Corn Bush.	Wheat Bush.	Silver Ounce.
1872	19.3	70	1.47	1.32
1873	18.8	62	1.31	1.29
1874	1.54	72	1.43	1.27
1875	1.50	85	1.12	1.24
1876	12.9	67	1.24	1.15
1877	11.8	54	1.17	1.20
1878	11.1	56	1.34	1.15
1879	9.9	47	1.07	1.12
1880	11.5	54	1.25	1.14
1881	11.4	55	1.11	1.13
1882	11.4	67	1.19	1.13
1883	10.8	68	1.13	1.11
1884	10.5	61	1.07	1.01
1885	10.6	54	86	1.06
1886	9.9	50	87	99
1887	9.5	48	80	97
1888	9.8	56	85	93
1889	9.9	47	90	93
1890	10.2	49	83	1.04
1891	6.0	41	85	90

#### MARYLAND GAME LAWS.

We have received communications on the preservation of game, fish, terrapin etc. in Maryland, and the interest we should have in seeing that the present imperfect laws are enforced. An association to this end, formed in Wicomico County,

sends us a copy of the by laws governing that body, and a proposition to have an organization covering the entire State, and perhaps Delaware, also, has been canvassed.

We are heartily in favor of some movement which will enable our farmers to protect themselves against tramp hunters and tramp fishermen. We know of some cases where the farmers have attempted to assert their rights, only to receive in return abusive words, and the burning of their buildings. In one or two cases where the farmers have used violence against these trespassers, the farmers have been fined and imprisoned, as if they were the aggressors, instead of the tramp hunters with their dogs and guns. It will be a great benefit to our State, if influence could be brought to have the laws made uniform throughout the State, and put in shape for easy enforcement.

For the Maryland Farmer.

#### MALARIA.

BY DR. ROBERT WARD,  
State Veterinary Surgeon.

In all low lands there exists what is termed a water-logged condition of the soil at the season when the waters appear to be absorbed off the surface, and when this occurs in some sections, a corresponding degree of malaria develops with this drying of the earth's surface. Now when animals are located on such a spot, the atmosphere abounds in microscopic fungus. The spores found in this fungus have been experimented with, resulting in proof that these spores are factors of malaria. Accepting this, in a given area, wherever a number of horses, cows, dogs and cats are located, not by any means protected against the severe inclement



weather of this present winter, it cannot call for any great effort to realise a cause for the development of sickness, and fatal sickness too, unless remedial measures are adopted early in the development.

Recently in Cecil Co., a number of animals on a farm were found dead or seriously affected, horses, mules, cows, dogs, cats and men. The upper air passages seemed the seat of the trouble, a greenish discharge from the nostrils and mouth filled with dribbling mucous, the animals seemed drowsy and languid, but would eat some. A mule died and then at intervals of a week two horses died. The cats were shot.

No other farm around was affected like this one; had it been otherwise, the disease would have been declared to be Influenza or Grippe; but being isolated, it was held to be a malarial form of catarrhal fever, of the enzootic type. Remedial measures were prescribed in detail, and report has it that all the other animals have recovered or are recovering.

Farmers should not allow such cases of sickness to run on before obtaining medical aid, and Maryland now has quite a staff of Veterinarians so favorably distributed that there is no excuse for not employing one in any locality.

An advocate of corn fed pork admits that the hog fed miscellaneously has the sweetest and tenderest meat, and if taste be a criterion in pork, as it is reckoned to be in everything else that is eatable, the fruit fed and milk fed pork is certainly best. But he adds that if greater firmness be desired it may be had by finishing off the last few weeks of fattening by feeding corn meal, not corn in the ear.

## FERTILIZERS.

CONDUCTED BY H. J. PATTERSON,  
Of the Maryland Ag'l. Experiment Station.  
Contributions and Queries Invited from  
all Sources.

For The Maryland Farmer.

### WHAT FERTILIZERS TO USE FOR TOBACCO.

The tobacco plant has more individual peculiarities than any other with which our farmers have to deal, and because of these peculiarities it is necessary to give the tobacco crop, in very many respects, a different cultivation and fertilization from that which we would give other crops to be grown under similar conditions.

The value of a crop of tobacco rests upon the following characteristics:—

1st. The color which is developed during the process of curing.

2nd. The texture—fineness, thickness and strength of leaf.

3rd. The burning qualities.

4th. The character of the ash left after combustion.

5th. The aroma given off during combustion.

The most of these qualities are in the main very dependent on the soil and climate; yet they may be very materially changed and modified by the kind of fertilization, and culture and the character and degree of fermentation.

In the fertilization of tobacco, we must keep all the above characteristics in mind and use such materials as will improve the qualities as well as increase the yield. We have very many substances which enter into the composition of commercial fertilizers which will often

produce a marked increase in yield, yet make the crop of an inferior quality, and thus be less valuable than a much smaller crop of good quality. Again we have fertilizers that will have a marked influence in improving the quality of the crop, but will not show any material increase in quantity; the better quality justifying and paying for their application.

The quality of the Maryland tobacco crop has deteriorated very considerably during the last decade, and while this is due to many causes, yet no doubt as the the extensive use of commercial fertilizers has come into vogue during this period that the character of the fertilizing ingredients are responsible in a large measure for the poorer quality of our crops.

The first, and in most cases the only incentive for the application of a fertilizer to any crop is in the hope of increasing the yield. The compounder of fertilizers has adopted this same general rule with tobacco fertilizers, and the increased yield produced has been very often at the sacrifice of the quality.

It is very seldom that you hear a farmer speak of using a fertilizer for improving the quality of his crop, regardless of increasing the yield; but if he speak of the quality, it will generally be as a secondary consideration after increasing the yield.

Experiments have shown that the different plant foods should be produced from the following sources:—

#### PHOSPHORIC ACID.

Phosphoric acid, on all the soils tested in Maryland, produced a marked increase in the yield.

1st. Dissolved South Carolina rock,

dissolved bone and raw bone are good and safe sources of phosphoric acid.

#### NITROGEN.

Nitrogen or ammonia proved to be deficient in all of the soils tested in Maryland; the amounts which it was necessary to supply being variable.

2nd. Use a little of sulphate of ammonia or nitrate of soda to give the plants a good start at time of setting out and in the seed bed.

3rd. The best source for the balance of the nitrogen is to gain it by introducing crimson clover into the rotation, and turning this under for the crop.

4th. If it is not possible to supply sufficient nitrogen through a clover crop, supply it by means of tankage, dried fish or dried blood.

#### POTASH.

Potash in some sections of Maryland produced a decided increase in yield, in other sections little if any increase; but in all cases it had a marked influence upon quality.

5th. The best source of potash for tobacco is a carbonate, such as cotton seed hull ashes or wood ashes.

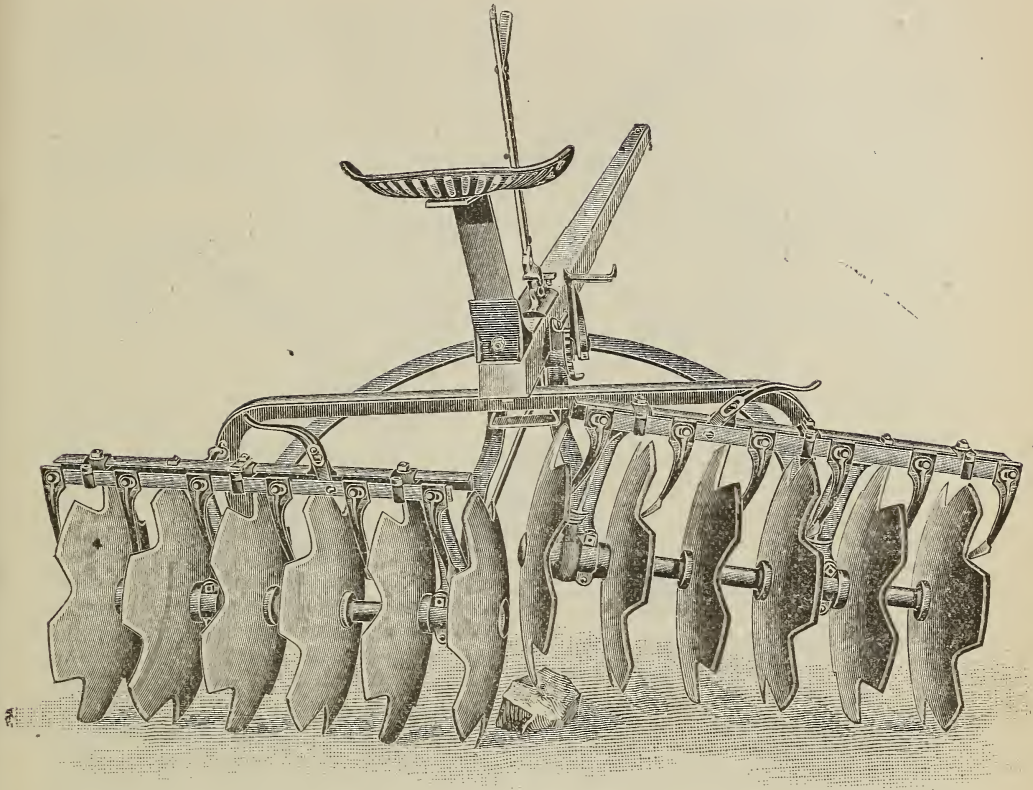
6th. The best potash salt to use is the high grade sulphate of potash.

7th. Never use kainit, muriate of potash or low grade sulphate of potash on a tobacco crop, or on any land that is to be used for a tobacco crop. In fact, none of these potash salts should be used in a tobacco section.

#### MISCELLANEOUS.

8th. Do not use lime on a tobacco crop or on land that is to be used for tobacco within six or eight years.

9th. Stable manure needs to be supplemented by the addition of phosphoric acid and potash.



FLEXIBLE CUTAWAY HARROW.

10th. Never apply common salt to land that is to be used for tobacco.

11th. Be careful as to the crops that are introduced into the tobacco field rotation, as different crops have different effects upon the quality of the tobacco to be produced upon that land. (See paper in January number, Maryland Farmer.)

H. J. P.

**PITTS ALL STEEL-SPRING  
FLEXIBLE CUTAWAY HARROW.**

The great feature of this Harrow is, that it is the only harrow made having yielding spring action on centre disk.

allowing it to cross middle furrows or uneven ground without pressure upon the pole. It is strong and yielding with equal pressure on all disks. It is made by the Pitts Agricultural Works and can be seen at the warehouse of their representatives in this city.

The intelligent farmer now attains the highest results by care and kind usage of his animals. Beating and harsh treatment have proven unavailable and also unprofitable as they injure the stock and take money from the pocket.



Compiled for the Maryland Farmer.

### FARM ITEMS.

Periodical applications of ashes tend to keep up the integrity of the soil.

To manure or lime wet land, is to throw manure, lime and labor away.

Shallow plowing operates to impoverish the soil, while it decreases production.

Subsoiling sound land that is not wet, is eminently conducive to increased production.

Clover seed may be sown to advantage on the snow early in March, or on oats after seeding.

Feeding rusty straw to cattle and horses has a very injurious effect upon their health and efficiency.

Always provide an equivalent for the substance carried off the land, to the products grown thereon.

The best soil for corn is a rich, sandy loam, deep and tolerably level. Alluvial soils are exceptionally good when they can be laid dry.

One of the best fertilizers going constantly to waste is soot. It is as valuable as guano and should be carefully saved at least twice a year.

When you find screws and nuts have become fast from rust, pour on a little kerosene oil, and wait until they become soaked with the liquid.

The best manure for potatoes on heavy land is fresh stable, or hog-pen scrapings, mixed with a large portion of broken straw, leaves or other litter.

For a cow that leaks her milk badly, place a little elastic gum ring around each teat. No harm to the cow, and will save in a season several dollars worth of milk.

For a sore throat and cough in pigs, give a gill of melted hog's lard, and turn the pig out of the pen to get fresh dirt, and he very soon will be better and get well.

For foot evil, saturate the affected part with spirits of turpentine, and apply a match. One application makes a complete cure, and does not make much of a sore.

The leaves of a geranium are an excellent application for cuts where the skin is rubbed

off, and other wounds of that kind. One or two leaves must be bruised and applied to the part, and the wound will be cicatrized in a short time.

Deep plowing is not so necessary for wheat, rye and oats, as it is for corn; because their roots do not run, naturally, deep; nor does their season of growth so frequently subject them to drouth.

Good early cut clover hay with roots will keep sheep as well as they need be through the winter, and until the ewes are lambing. Then some oats should be given them. Corn should be fed only, in small quantity to a flock.

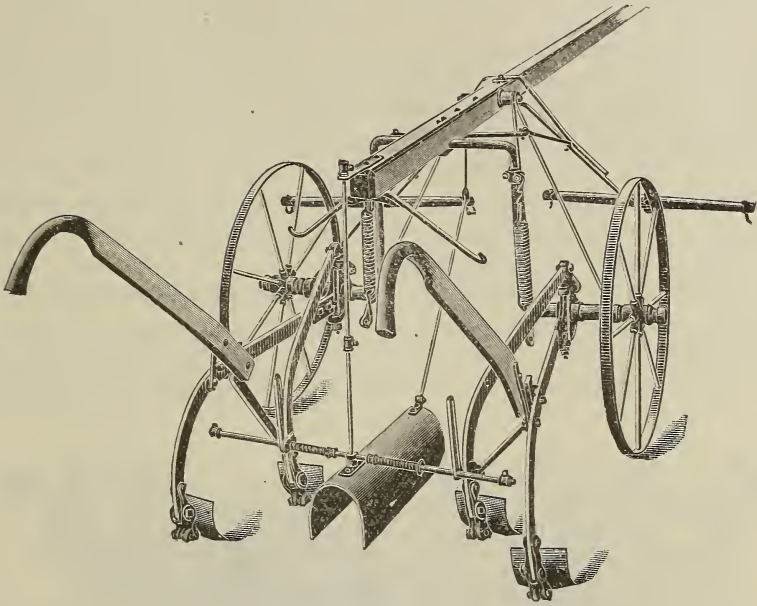
Celery may be kept in the best condition in a cellar, packed in barrels, with the roots as they were taken from the ground. Some of the top leaves may be trimmed off, and the plants should be packed closely in the barrel, so as to exclude the light.

Provide a trough under cover in the pasture and spread over the bottom of it three times a week as much tar as will cover it. Over the tar sprinkle salt. In getting at the salt the sheep will smear their noses with the tar, and thus prevent the fly from laying eggs in their nostrils.

Working animals should be well treated. Feed less indeed, in the stall than when at hard work, but supply regularly with good nutritious food. Horses so kept are all the better for an occasional supply of carrots cut up, and should be exercised carefully at times after standing in stall.

One peck of clover seed is the usual quantity to the acre, though some sow less. It is of decided advantage to sow clover seed, and then follow with additional seeding of orchard grass on the same land. In this case sow 12 pounds of clover seed, and not less than one bushel of orchard grass seed.

A ram lamb, if an early one, will answer for breeding to a flock of not more than twenty ewes. The best lambs should be from rams when one, two, and three years old past, because they are then in their vigor. At these ages they may be mated with, say one hundred ewes, if they are well fed.



PENDULUM BEAM CULTIVATOR.

**PENDULUM BEAM CULTIVATOR.**

We illustrate the Pendulum Beam Cultivator manufactured by the Hayes Pump & Planter Co., of Galva, Ill.

While this cultivator is new to the trade, it has been in use for the last two seasons.

In this cultivator the front shovel standards swing like a pendulum so that in dodging, it moves the same distance as the rear shovels, making it only necessary to move the handles about two-thirds as far as the ordinary cultivator, which is a great saving in labor.

In connection with this cultivator, Mr. Hayes will furnish his new patent Independent Fender, (which is shown in the illustration) or the ordinary fender when desired. The Fender is carried

by the tongue and can be adjusted any distance from the ground desired.

#### How Much Butter Can Be Made From Milk.

Time does not permit me to go into details to show the reason, but much investigation has demonstrated the fact that for each pound of fat in milk one should make about one and one eighth pounds or one pound two ounces of butter.

To find out how much butter should be made from 100 pounds of milk, multiply the per cent of fat in milk by one and one eighth. For example: From 100 pounds of milk containing 3 per cent fat, we should make about three pounds six ounces of butter; from 100 pounds of milk containing 4 per cent of fat, four and one half pounds of butter; from 100

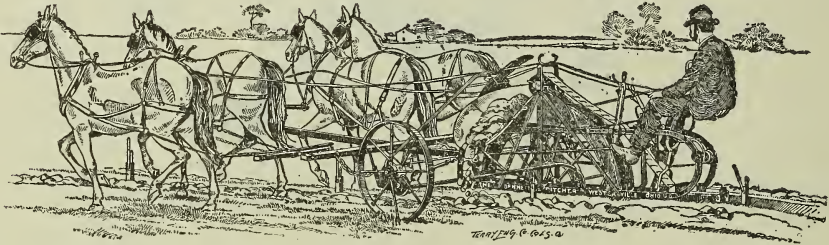
pounds 5 per cent milk, five pounds ten ounces of butter, etc.

Suppose, in making butter, we get more or less than the calculated yield. How shall we explain this? If less than the calculated amount of butter is made, the decrease must be due to one or both of two causes. First, excessive loss of fat in skim milk and buttermilk; and second, the working or pressing out of too much water. If more butter is made than the rule calls for, then it is due to the fact that more than a fair amount of moisture has been left in the

malleable iron and steel, and all the wearing parts can be readily duplicated. The draft of the machine is light, four horses doing the work with perfect ease, opening, leveling and preparing the ditch for the tile rapidly. It is manufactured by H. L. Bennett & Co., of Westerville, Ohio, of Stump Puller fame. Send for their Illustrated Catalogue.

#### ASHES FOR FRUITS.

Will it pay to haul hardwood leached ashes, to be had for hauling, a mile from ashery for apples, peaches, pears, plums,



#### TILE DITCHING MACHINE.

butter caused by unfavorable conditions of churning, or by insufficient working.

These facts enable the butter maker to find out whether he is making mistakes in his work, and whether he is getting the best results in butter yield.

—*Dr. E. L. Van Slyke.*

#### PATENT TILE DITCHING MACHINE.

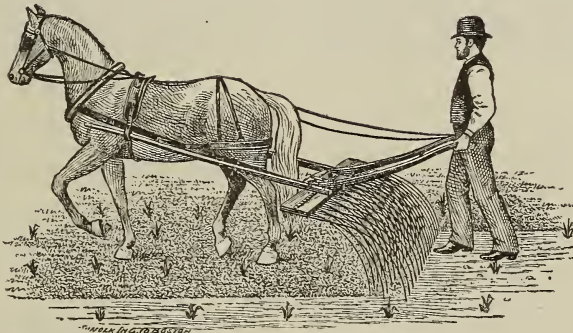
We give in this number an illustration of one of the most successful Ditching Machines. At 6c. to 10c. a rod the machine will earn for its owner \$10. a day, and it can be used about nine months out of the year. It is made of

grapes and berries? Land clay at highest points. How much to the acre? I can get barnyard manure as cheap and easily. S. L. R. Toledo, O. [There is no question as to the advisability of hauling the ashes—we should say up to 500 or 600 bushels per acre; in fact, there is not much danger of doing any harm, no matter how heavy the application. In regard to barnyard manure, circumstances would indicate the quantity advisable to use, as all the fruit might not be benefited alike. For the apple orchard, unless the ground has been heavily manured recently and is very fertile, what would be considered a



heavy application would undoubtedly be beneficial. In the peach, pear and plum orchards, we should be guided by the growth of the trees; if they have made an extensive growth of wood the past season and are very vigorous owing to a large quantity of nitrogen already in the soil, we should give a light application; if they are making slow growth and seem to lack vigor, we should make one strong application and note results carefully, meantime applying the ashes in connection. For grapes, we should use very little barnyard manure, except

growth of soft wood and canes, and these might not ripen sufficiently in the fall to stand the winter. It seems almost too good to be true that there exists a place where hardwood ashes and farmyard manure can be had practically for the asking. With us, the question is how small a quantity we can get along with, without any fear whatever of overdoing the matter. We congratulate our correspondent on being placed under such favorable conditions.]—*Country Gentleman*.



WEEDER AND CULTIVATOR.

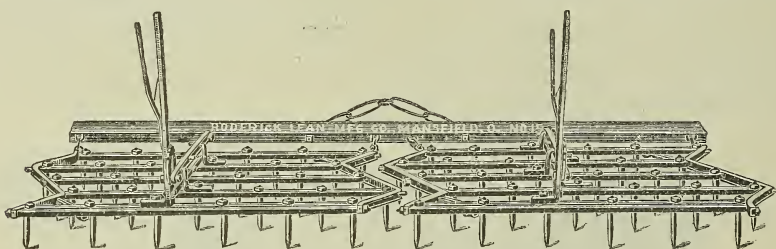
to stimulate the wood growth, as in the case of the fruits above mentioned. The grape is a lover of potash and will stand almost any quantity of leached hardwood ashes. The same is true of the small fruits. We should also advise the use of farmyard manure on the currant and berry plantations to produce a satisfactory wood growth. The only danger in the small fruit plantations would be the extensive quantity of farmyard manure which, if so applied, might cause a rapid

#### THE ZEPHANIAH BREED WEEDER AND CULTIVATOR.

There has probably been no farm tool introduced in many a year that has created such a sensation in the farming world and at the same time proved itself to be so invaluable as the machine illustrated above. It is not only adapted to all soils except the heaviest clay, but it supplants all other cultivating machinery including the hand hoe, in all our farm "hoed crops," including the small-

er vegetables and small fruits. A man with a horse and weeder will do the entire work on an acre of corn, potatoes or similar crops, between planting and harvest, in  $3\frac{1}{2}$  to 4 hours. Intelligently used it is worth its weight in silver (if not in gold), to the farmer who glories in fine crops and fields free from weeds. See their advertisement in this issue of the Farmer.

has caused manufacturers to study the interests of the farmers and to adopt the sizes that are most suitable for their use, which are thirty, thirty-four, and thirty eight inch, with four-inch tire, ten, twelve, and fourteen one inch oval steel spokes. The Havana Metal Wheel Co., Havana, Ill., make these wheels to fit the best wagons now on the market, but to prevent any mistake they prefer to have



ALL STEEL LEVER HARROW.

#### LEAN ALL STEEL LEVER HARROW.

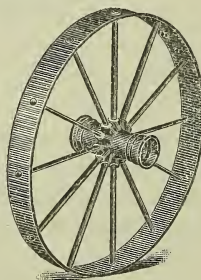
This harrow is made by the Roderick Lean Manufacturing Co., of Mansfield, Ohio, who are exclusively engaged in the manufacture of Spike-tooth Harrows. It is constructed entirely of steel, has few parts and can be adjusted at any angle either forward or backward; the teeth are diamond shaped, forged and tempered; it has a substantial frame extending around it, and being securely braced it is impossible for the frame to come loose and allow the teeth to track. It secured the highest award at World's Fair. The Baltimore Agents are having an immense run on them this season.

#### FARM TRUCK WHEELS

The enormous demand for such wheels

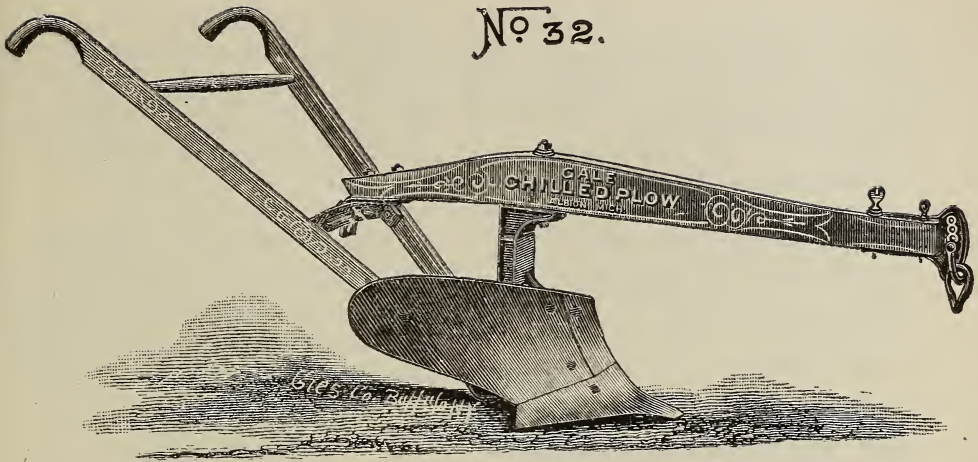
the size of your skein so as to make the wheels a perfect fit.

There is no question as to the economy of using metal wheels or wide tires for



FARM TRUCK WHEEL.

general farm work as well as road work. The ordinary farm wagon will outlast two pairs of wooden wheels. We urge our readers to send for circular of these wheels.



GALE CHILLED PLOW.

**GALE CHILLED PLOW.**

The Gale Manufacturing Co., of Albion, Michigan, have long been recognized as among the leading plow makers of the world, producing a most complete line, recognized for superiority of construction and sterling merits. They have made an innovation exclusively their own patent, which enables the user to adjust the handles to any desired height, which will be appreciated as a boon by every man who has used a plow. This improvement is shown in the accompanying illustration.

**VANSVILLE FARMERS' CLUB.**

The Vansville Farmers' Club held its February meeting at the residence of Mr. A. J. Bennett, near Conties station, President J. D. Cassard in the chair, with the following members present: G. E. Loweree, D. M. Nesbit, F. M. Magruder, William Snowden, and W. M. Powell. Professors Patterson, Robinson and McDonnell, of the Maryland Agricultural College, were also present. It was

decided to give an Irish Potato contest to the members of the Club. A prize of a \$25. piece of silver to be awarded to the farmer who raises the best potatoes in a quarter acre field, with the conditions that the field produce not less than seventy five bushels, weighing not less than sixty pounds to the bushel. Contestants to be announced at the May meeting of the Club. The question "Sheep and Hog raising" was discussed, the prevailing opinion being that Hog raising was now more profitable for that section of the country than raising of Sheep. Mr. Bennett entertained the Club at supper in his usual hospitable way. The March meeting will be held at the residence of Mr. William Snowden, when the regular question for discussion will be "Agriculture in this section forty years ago and at the present time."

**CREAM SEPARATORS.**

We take pleasure in calling the attention of such of our readers as may have any interest in that connection to the new 1895 advertisement of the De Laval Cream Separators, which appears in another column.

If any dairy authority were asked to name the one thing which has contributed most to the development and improvement of our



dairying interests in the last few years, the answer would unquestionably be—the Cream Separator. And when one speaks of the Cream Separator the name De Laval seems almost synonymous therewith.

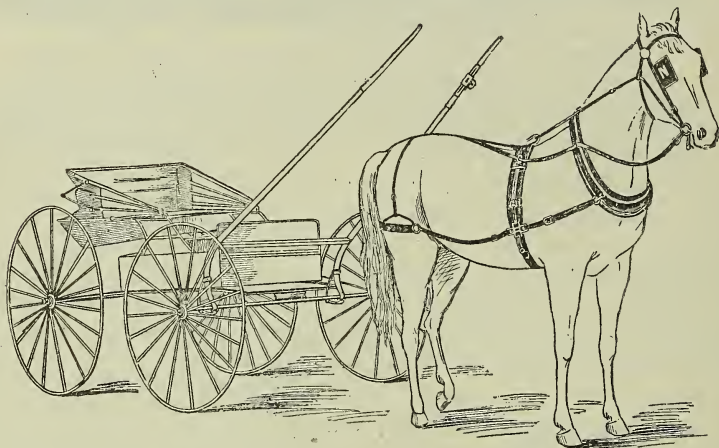
The De Laval machines have been in use and subject to tests continually at nearly all of our State Experiment Stations and Agricultural Colleges now for a couple of years, and all these authorities seem to join in hearty endorsement of them,—both scientifically and mechanically.

The criticism is made by some, that the prices of separators are too high. This is no

light any house, hotel or institution and supply gas for fuel, etc. You can use the Welsback burner with both qualities. The offices and works, presided over by Mr. Clarence M. Kemp, are at the corner of Guilford Ave. and Oliver St. Telephone number 1518.

#### Automatic Harness Attachment.

We have had some experience with the Norwood Automatic Shaft and Harness Attachment, our business manager having used it and reporting very favor-



NORWOOD AUTOMATIC HARNESS ATTACHMENT.

doubt true, and we suppose they will come down in the future. Many think they ought to wait on this, but the separator people say that even though prices may come down in time, those who put in machines now will have saved their cost several times over meanwhile, and if users are really saving what they say they are, and the machines are accomplishing what our authorities all agree upon, this seems to be so.

#### THE CLIMAX GAS APPARATUS.

This useful apparatus admirably fulfils the end for which it was intended, viz; to

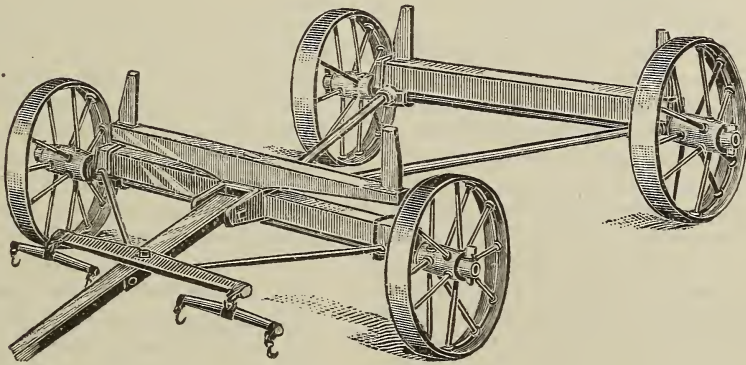
ably concerning it. Until recently the Norwood Manf'g Co., Baltimore, Md., have been unable to meet the demand, but they are now in shape to respond promptly. Their invention enables the owner to attach or release the horse from the vehicle instantaneously, and by addressing them anyone can have the attachments at a trifling cost or at no cost whatever. In case of accident, or a runaway, it is invaluable, and becomes a real blessing.

**CURRELL WHEAT.**

Prof. R. C. Kedzie, of the Michigan Agricultural Station, recently read a paper before the Michigan Miller's Association on the prominent wheats of the Country thus describing "the Currell wheat" which has been extensively cultivated from seed distributed from the Kansas State Agricultural College.

"The Currell is a red Wheat, It is

Hungarian has  $13\frac{1}{2}$ . If the Currell proves to be well adapted to our soil and climate, it is by far the most prominent red winter wheat now before the public. The results of the trial of this wheat on the College farm will be watched with interest. Professor Georgeson, in bringing this wheat prominently before the farmers, has done a good work for American agriculture.



A LOW WAGON.

said to have originated in Virginia. It is "the brag wheat of Kansas," both for quality and productiveness, yielding nearly 40 bus. per acre. Professor Georgeson, of the Kansas Agricultural College, speaks in high terms of the Currell. He generously furnished our College with a specimen of the flour and for seed, and two acres have been sown on the college farm with this wheat. The berry is small, but hard and flinty, and, though a dark red wheat, it makes a fine white flour, as you see from the specimen on the table. In many respects it resembles the Hungarian wheat from Budapest. It is very rich in albuminoids, containing  $15\frac{1}{2}$  percent of crude protein.

**A Low Wagon.**

We remember in years past how greatly we needed a wagon with low bed for the hauling of heavy merchandise and after having one constructed with the bed hung under the axles, what a great comfort it was to our workmen; the illustration of the wagon of H. L. Bennett & Co., of Westerville, Ohio, although the bed is not below the axle, brings to our memory the above. Low wheels of steel, broad tires, the whole rig weighing less than 500 pounds and warranted to stand two tons. This is really a desirable vehicle to have in the country, and especially with our imperfect roads.

**BOOKS, CATALOGUES, ETC.,**

In addition to the list of beautiful seed catalogues mentioned in our February number, we record the following:

Mount Hope Nurseries, a supplementary catalogue (1895) Ellwanger & Barry, Rochester, N. Y.

Pleasant Valley Nurseries, Arthur F. Collins. Moorestown, N. J.

Vaughan's Seed Store, Chicago, Ill., and New York, N. Y.

A. W. Livingston's Sons, Seed Annual "True Blue." Columbus, Ohio.

J. J. Bell, Binghamton, N. Y.

Alliance Nursery Co., Rochester, N. Y.

L. L. May & Co., St. Paul, Minn.

Peter Henderson & Co., New York, N. Y. Manual of Everything for the Garden.

Harris' Rural Annual, Joseph Harris Co., Moreton Farm, N. Y.

Northern Grown Tested Seeds (1895) Northrup, Braslan, Goodwin Co., Minneapolis, Minn. This firm has departed from the ordinary portrayal of flowers and fruit on their illuminated cover by giving us a copy of the Bucking Broncho, from the painting of the Cowboy Artist, H. C. Russell.

The year Book of the American Berkshire Association, Springfield, Ill., \$1.00. It is beautifully printed, finely illustrated and filled with interesting matter aside from the Berkshire records. Chas. F. Mills, Springfield, Ill., is Secretary of the Association.

The 1895 Prospectus of the Baltimore Centennial Exposition is received. It contains the Charter of the Association, the list of committees, and many words of approval from various organizations and individuals.

A Years Work on the Fordham Farm is a beautifully illustrated book published by W. Atlee Burpee & Co., Philadelphia, Pa., showing in half tone engravings their seed and flower work.

**Grasses, Clover, Field Roots. Etc.,**

Grasses and Clovers, Field Roots, Forage and Fodder plants, by Prof. Thomas Shaw, is an excellent work published by the North-

rup, Braslan, Goodwin Co., of Minneapolis Minn. 130 pages bound in cloth. This is one of the most interesting and instructive books on the subject of grasses, etc., we have ever read. It is offered as a premium for seed buyers from their catalogue.

**REMOVAL.**

Professor W. C. Wilson has opened for the public his new and very extensive quarters at 123 N. Entaw St., where his remarkable curatives are now to be had. His consulting room for both ladies and gentlemen are pleasant and attractive, and his lecture hall on the floor above, is equal to any in our city for conveniences and beauty. His neuro-pathic treatment has effected many wonderful cures, and his success in rheumatic cases of long standing is remarkable. Some of the most prominent business men of our city are his beneficiaries and do not hesitate to express their satisfaction with his treatment.

**They Show the People, Their Goods.**

The Reliable Incubator and Brooder Co., of Quincy, Ill., believe in going before the public with their line of goods. During the present season they have exhibited their improved, self-regulating Incubators and Brooders (in operation) at many leading Western Fairs and Poultry Shows, winning highest honors in every case, the competition at some points being keen. For the benefit of our readers, we give in this number an illustration showing the principal features of their machine; for to the poultry keeper this artificial raising of poultry is a matter of great interest.

**Berlitz School of Modern Languages.**

On a late visit to this institution, No. 19 W. Saratoga St., we were glad to see good evidences of prosperity, and to hear cheerful words of their progress. Their system of teaching seems not only to give satisfaction, but to create the very best command of modern languages in those who receive instruction. May this school continue to prosper



For the Maryland Farmer.

### EXPOSITION ITEMS.

Baltimore's Great Centennial of 1897.

Notes from Headquarters.

After several months of careful and painstaking investigation, aided by various local organizations that had made offers of sites for the Exposition, the "Ground and Buildings Committee" have selected Clifton Park as the best and most advantageous location. This choice has met with the approval of residents of all sections of the city. To be sure some disappointment was felt by those who advocated Patterson Park, but with a loyalty to the best interests of the city the people of East Baltimore have nobly fallen into line and determined to contribute in every possible way towards the success of the Exposition.

The jury for condemnation of Clifton Park has been named and will at once proceed to determine the sum to be paid by the city for the park, and just so soon as the purchase has been completed the City Council will be asked to grant the Park for Exposition purposes. There will be no necessity of closing the Park to the public much before the Winter of 1896 so that no one will be deprived of enjoying its beauties until about the time that the buildings are approaching completion.

The success of the Poultry and Pigeon Show held here last week augurs well for a grand exhibit at the Centennial.

The General Manager has received letters from many of the State Governors promising to urge the Legislatures which meet next Winter, to make provision for State displays.

The Supreme Lodge of Shield of Honor of the United States is expected to hold its annual meeting here in 1897.

Popular enthusiasm in behalf of the Exposition has taken on a generous phase, as not only a large flag and halcyards have been contributed to the Exposition Association but an immense Pole also has been given, and all will be raised on the day of the Ratification Meeting, which will probably be Easter Monday. On this occasion an attendance of 50,000 people is confidently expected. Arrangements have been made for a grand parade by military and other organizations.

For the Maryland Farmer.

### ATLANTA EXPOSITION NOTES.

President Collier has received through the State Department a communication from Clifton R. Breckenridge, United States Minister at St. Petersburg, who says the invitation to the Russian Government, to take part in the Cotton States and International Exposition, was received with great favor by the Minister of Foreign Affairs.

Russia takes special interest in the Southern States, because of cotton culture, in which the Czar is personally interested. Four years ago, an accomplished Commissioner, representing the household of the Czar, visited Atlanta, and remained in Georgia for many months, investigating cotton culture. He made an exhaustive study the subject.

The Russian Emperor has immense cotton plantations on the crown lands in Turk-estan, and it is in this way that he came to take special interest in cotton culture in America.

President C. A. Collier, General Counsel J. J. Spalding, Vice-president H. H. Cabaniss, Hon. Clark Howell, Chairman of the Committee on Legislation, Gov. R. B. Bullock and E. P. Black went to Raleigh, by invitation to address a joint session of North Carolina General Assembly in behalf of the Cotton States and International Exposition. They were treated with distinguished courtesy, and received assurances from a number of leaders that the legislature would vote an appropriation to make an exhibit.

Mr. Charles H. Redding, Commissioner for the Cotton States and International Exposition, was interviewed in the City of Mexico by the Associated Press correspondent on his return from Guatemala. He says that Guatemala will make an exhibit at the Exposition.

General J. R. Lewis, Secretary of the Exposition Company, has made a careful estimate of the amount of space taken and applied for, and his calculation is that every foot available will be covered by applications within the next sixty days. The applicants are located in all parts of the United States and Europe.

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## Baltimore Business Directory.

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- Accountant.** Expert Accountant.  
Wm. F. Rogers, 323 N. Charles St.
- Agricultural Implements.** Seeds, etc. Griffith & Lytle, 516 Ensor Street.
- Ag'l Implements, Fertilizers.** Roloson Bros., 1900 to 1910 Frederick Ave.
- Attorney at Law.** Broker in Business Opportunities  
G. W. Hume Craig, 319 Law Bld'g
- Auctioneers & Commis'n Mer's.** Merryman & Pat-  
terson, 11 S. Charles
- Baltimore Transfer Co.** 205 E. Baltimore St., Pas-  
senger, baggage & Freight
- Brunswick Cafe.** Rooms for Gentlemen.  
526 N. Calvert Street.
- Business College** School of Shorthand, Typewrit-  
ing. C. E. Barnett, 102 N. Charles
- Barber's Supplies.** (Largest House South.)  
M. Trego & Co., 415 E. Baltimore
- Farmer Publishing Co.** Fine Printing,  
213 N. Calvert St.
- Farm Supply Co.** S. Luther Lamberd, Sec'y & Sup't.  
Agr'l Imp., Seeds. 114 Light St.
- Grain Drills.** Empire Drill Company, W. H. Brown,  
Manager. 404 S. Eutaw Street.
- Grain Drills.** Bickford & Huffman Co.,  
B. G. Thomas, Mgr., 408 S. Eutaw St.
- Carriage & Wagon W'ks.** Peters Carriage & Wagon  
W'ks., 2001 Frederick Ave
- Carriage Builders,** Martin L. McCormick & Bro.  
Madison and Boundary Aves.
- Carpenter & Builder,** Saml. G. Leight, 14 W. 20th.,  
Residence, 401 E. Biddle St.
- Carpenters & Builders.** Minor & Brother,  
14 N. Green Street.
- Chemicals & Fertilizers,** R. J. Hollingsworth, M'frs'  
Agent 102 S. Charles St.
- Mass. Benefit Ass'n,** P. L. Perkins, General Agent,  
Fidelity Building.
- Engineers & Machinists.** C. L. Gwinn & Co.,  
709 E. Fayette Street.
- Funeral Directors,** Wm. J. Ticker & Sons, (Hacks  
Supplied.) 221 S. Eutaw Sreet.
- Fertilizers.** Excelsior Guano,  
J. J. Turner & Co., 602 E. Pratt St.
- Cole's Hotel,** Newly Furnished, Rates Moderate.  
Stables. N.W. Cor. Hillen & Forest Sts
- Carrollton Hotel.** Rates, according to location of  
Rooms, \$2.50 to \$4.00 per day.
- Kilrain's Hotel,** Jake Kilrain, Prop. N.W. Cor. Pratt  
& Eutaw St. Regular Dinners 35c.
- Maltby House.** American and European Plan.  
Pratt Street, near Charles.
- Pepper's Hotel,** Holliday and Lexington Sts. Opp.  
City Hall. Mrs. W. S. Pepper, Pro.
- Katter.** James E. Connolly.  
S. W. Cor. Eutaw and Saratoga Sts.
- House and Sign Painters,** Pole & Wilson,  
Sharp and Barnett Sts.
- House and Sign Painters** Phillip Endlich,  
201 E. Saratoga St.
- House & Sign Painters.** Wm. A. Gettermann,  
1911 E. Biddle Street.
- Job Printing** of all kinds. Estimates Furnished.  
Maryland Farmer Office.
- Leather & Shoe Findings.** J. A. McCambridge & Co.  
118 S. Calvert St.
- Lumber Dealers.** Thos. Matthews & Son,  
Canton Avenue & Albemarle St
- Patent Fire Pots,** Blow Pipes, Burners, &c.  
The Hull M'fg Co., 800 E. Pratt.
- Pattern & Model Makers,** Leach & Orem,  
210 N. Holliday St.
- Plumber and Gas Fitter.** J. H. Pumphrey,  
1504 W. Baltimore St.
- Plummer and Gas Fitter,** J. M. Foster,  
100 Clay St., cor. Liberty.
- Printers Rollers & Roller Gum,** J. E. Norman & Co.  
421 Exchange Pl.
- Real Estate.** L. G. & E. W. Turner, 26 E. Fayette St.  
Suburban property & town colonies.
- Sails, Awnings, Tents** and Hay covers. (Old canvas)  
Stevenson & McGee, 212 Light
- Sample Trunks & Cases.** L. Gram, Manufacturer  
& Repairer, 7 N. Sharp St.
- Veterinarian.** Stuart E. Paulet, M. D. C.,  
Railroad Hotel, Catonsville, Md.
- Veterinarian.** Wm. Dougherty D. V. S. Graduate of  
Veterinary Medicine. 1055 Cathedral

# MARYLAND FARMER,

H. R. WALWORTH, Editor.

The MARYLAND FARMER is published Monthly at Baltimore, Md., at the subscription price of 50c. a year in advance. New subscriptions can commence at any time during the year.

Payment for the Maryland Farmer when sent by mail should be made in a Post Office Money Order, Postal Note or Express Money Order. When neither of these can be procured, send the money in a registered letter. All postmasters are required to register letters when requested to do so.

Always give the name of the post office to which your Magazine is sent.

CONTIBUTIONS:—All are cordially invited to express their opinions on any subject, give helpful talks to the inexperienced, and ask questions in any department.

All letters should be addressed,

**FARMER PUBLISHING CO.,**

213 N. CALVERT ST. BALTIMORE, MD.

Correspondents are specially requested to write their communications on separate slips of paper and only on one side, signing name and address.

Advertising rates sent on application. Agents wanted; liberal commissions.

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Entered as second class matter at Post Office, Baltimore, Md.

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3d Month.      MARCH.      31 Days.

PHASES OF THE MOON.

	D. H. M.		D. H. M.
First Quar.	4 7 40.3 P.M.	Last Quar.	19 12 31.6 A.M.
Full Moon	10 10 37.9 P.M.	New Moon	26 5 25.0 A.M.
Perigee	9 8 P.M.	Apogee	22 2 A.M.

FESTIVALS.

First Sunday in Lent,	March 3.
St. Patrick's Day,	March 17.
Spring begins	March 20.

with a great many men; but it is also a fact that these men have very quickly found something to do in some other field, where their labor has become more of a necessity even than on the farm.

Electricity has freed many thousands of horses from the burdens of car service in our cities; but straightway this stock is devoted to some other use, and the value of horses is not perceptibly lessened. So in the farm laborers; as fast as inventions liberate men from labor on the farm, other fields are open, and the demand for men of muscle is not perceptibly lessened.

## THE MISSION OF IMPLEMENTS ON THE FARM.

It is often supposed that the inventions of agricultural implements and machinery have been an injury to the masses of the people who live by farming. It is often said that the great number of men who were once necessary, where farming on an extensive scale was carried on, have been thrown out of employment; and that to this account a great part of the depressed condition of farming may be traced.

Perhaps this has had some influence in that direction, for it is quite certain that the improved implements of the present have enabled farmers to dispense

One effect has been that farming has been greatly relieved of the excessive hard labor with which it was formerly associated. From the very first work of the plow to the last day of harvesting the crop, it was once an exhaustive task on the entire frame of the farmer, and no puny weakling could hope to become a successful farmer. Now almost every process has become more a matter of skill than of strength of body; so that



mind, capable of directing successfully, is the thing needed on the farm as much as in any other pursuit.

Has the reader ever estimated the actual difference which improved implements have brought about in the labor of the farm? When harvesting hay, the work of twenty men is now done by a team, while the mower sits on his spring seat and sees the grass fall before the machine moving so steadily forward. One boy with his horses and his improved machine doing the work of twenty men, and the boy riding as comfortably as if out for his enjoyment instead of for serious work.

This is only one of many examples which might be mentioned, showing the work of implements on the farm, and what they are accomplishing in simplifying, lightening and rendering pleasant the most laborious features of farm life. But this one is all that is necessary for the object we have on hand now. We wish merely to impress the fact that with the advancement of the implement, the labor of the farm is turned to pleasure, toil becomes almost a pastime, and weariness is now only an interest in following the achievements of inventive skill.

It is quite in the line, too, to record here that all of man's work is fast becoming a matter of rapid accomplishment. The farmer must wait upon nature to perfect the crops; but his work in preparing the ground, planting, cultivating, harvesting, and preparing for market, are accomplished by the aid of machinery and improved implements in the briefest possible time. An acre of ground is weeded in a few hours, a field is harrowed and fertilized and sowed with

grain in a day; or three or four acres of cabbage plants or tobacco plants are planted in better shape, more perfectly, than by hand, for the machine does not vary an inch to the right or left and every plant is the exact distance desired from its neighbor—all in a single days work. Wonderful, indeed, how the inventive human mind overcomes the obstacles in every field of labor, and gives us machines more perfect in their manipulation than any unskilled hand can become, and only the mind itself can do work so perfect in some realm of fancy.

If in days of old the life on the farm was considered the happiest possible life of man; what now should be the halo surrounding it? Now, when the toil is shorn of its drudgery, and every item, in the home, or in the field, may be made an entertaining, pleasurable pursuit, instead of a weary plodding load of care?

Farmers should not hesitate to examine into the new implements which promise so much. They should know that they are never asked to buy unless the implement will accomplish what is claimed for it; and they should also know that life now is too short to do without these great sources of additional comfort and happiness.

It should always be borne in mind that there is an unending, active competition now in farming, as in every other pursuit, and he who would be successful must be on the lookout to secure all the assistance he can procure, all the advantage that science, inventive genius and research can offer; to make his labor profitable, and to enhance the fertility of his land.

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Notice our advertising pages.

## FERTILIZER QUESTION.

In reading carefully the third annual Report of the Chief of the Bureau of Statistics of Maryland, January 1st, 1895, we are impressed with two important facts:

1. That the number of farms in Maryland is 40,798. We suppose this can be approximated very nearly, so nearly in fact that we may rest upon this number as correct. The variation would not be more than two hundred in the State not reported, and we shall therefore call the number in a general way 41,000.

2. The second item is that the fertilizers bought and used in the State cost \$2,419,836. It is to be supposed, however, that it would be somewhat difficult to determine the exact amount, as much would very naturally escape the best efforts of the Statistician, and evidently many thousands of dollars worth, bought from abroad should be added. We will therefore call it in round numbers \$2,500,000, as the amount used in Maryland during the past year.

Can you estimate how many of the farms use these commercial fertilizers? If 25,000 used them, it would be an average of \$100 to each farm, but on the best estimate not one tenth of the farms use them to the extent of one hundred dollars, while the balance of those who do use them would probably average nearer a thousand dollars. Many are buying half a ton, or a single ton, while many do not hesitate to purchase ten, twenty or fifty tons for their farms and some few use it by the hundreds of tons.

We wish to impress this fact upon the minds of our readers that the cost of artificial fertilizers in the State of Maryland is (\$2,500,000) two and a half millions

of dollars. The farmers of the State are paying this amount of hard earned cash every year for fertilizers manufactured away from their farms, and brought to them by railroad, or boat, or by their own teams, sometimes by all these agencies combined; adding a hundred thousand dollars or more to the fertilizer tax.

We emphasize these items of the Report of Mr. Howard now, because we expect to use them in the future. We expect to examine this matter thoroughly, and to give some words of advice from the farmer's standpoint. The members of the staff of the Maryland Farmer are not merely theoretical farmer's but they are practical men. One of them has a general farm of hundreds of acres and another a large fruit farm; and some of our writers not only work their farms with their own hands, but are scientific scholars in reference to agricultural interests, and these items open up serious questions to us as well as to all farmers. *Qui bono?*

Show us the good in all this expenditure, if there be good. We wish to give plainly our conclusions as to the benefit or the evil of this immense expenditure of over \$2,500,000 for artificial fertilizers.

We shall treat this matter seriously in future numbers of our Journal.

## MARYLAND STATISTICS.

The Third Annual Report of the Bureau of Industrial Statistics, 1895, by A. B. Howard, Jr., is in hand. We have used elsewhere some of the agricultural statistics; but only in one direction. We are pleased that the Chief of Bureau has made them so plain to the understanding of all interested.

Number of Farms—40,798.

Number of Acres—4,952,390.  
 Value of Farms—\$175,058,550,  
 Value of Live Stock \$19,194,320.  
 Value of farm products \$26,443,364.  
 Number of Poultry 4,033,138.  
 Dozens of Eggs 8,718,593.  
 Pounds of Honey 301,157.

The census of 1890 is taken as the basis of these statistics ; but they have been modified wherever the work of the Bureau required it, and they have been condensed materially. We shall have occasion to use this work as authority for some future articles.

The statistics relating to manufactures are equally interesting, but do not challenge the attention of farmers as do those of an agricultural character.

The work performed in reporting the condition of the "Sweat Shops" is a very seasonable one, and belongs to that department of the Bureau which appeals to the hearts as well as to the heads of the people. We hope this will be read and acted upon by the earnest reformers who are working to benefit the masses of those who are suffering from the starvation wages paid by the ready-made clothing firms throughout the country.

Other topics treated are the unemployed among skilled and unskilled workmen, and the "strikes" on account of wages.

The statistics of mortgages and manufactures are interesting and the personal property department is a subject for thoughtful study.

#### THE EXPOSITION LOCATED.

The site for the proposed Centennial Exposition for 1897 has been chosen. It will be "Clifton" in the North East ern section of the City. The present buildings will undoubtedly be used, with such changes as may be necessary

to adapt them to the work of the Exposition. We are pleased to know, that the desire to secure ample room for the agricultural department of the Exposition, was a potent factor in determining its location at Clifton.

#### A SOUVENIR.

We have received a pretty little four page Souvenir dedicated to the delegates to the National Farmers' Alliance in annual convention at Raleigh, N. C., February, 1895. It is a succinct statement of the agricultural advantages which the South would naturally feel like impressing upon the minds of all visitors. It is from the pen of Mr. M. V. Richards, whose ripe experience with the land department of the B. & O. R. R., has fitted him for a greater and more successful work as Land and Immigration Agent of the Southern Railway. He not only gives the present conditions surrounding farm interests in the various Southern States ; but opens up clearly and impressively the agricultural possibilities of this section of our country. He shows conclusively that an additional population of farmers of ten or twelve millions could be accommodated and find a bountiful support amid the great variety of products which are common to that delightful climate. Then stepping into the field of cattle, sheep, hogs and stock generally, he shows advantages of which our Northern and Western farmers have scarcely dreamed. Pasturage all the year round, with grazing lands unlimited and markets at ones very doors. Then for vegetables and fruits, no place on earth can ever surpass this prolific region. We are pleased with this little Souvenir of Mr. Richards, who may be addressed at Washington, D. C.



Compiled for the Maryland Farmer.

### MARYLAND ITEMS.

Rockville, Montgomery County, is to have a fire company.

The new Court House at Snowhill is nearly completed.

Word comes from all parts of the State "Fruit promises well."

Lieutenant-Col. Frank Markoe will be elected Col. of the Fifth Regiment.

Hon. James Hodges, Ex Mayor of Baltimore, died February 15th, aged 73 years.

The recent cold spell has killed nearly all the Partridges and Rabbits in Kent County.

There were 3,964,351 pounds of lard shipped from Baltimore for foreign ports in one week during March.

The Potomac Gun Club has been organized in Hagerstown. Shooting matches will be held every week.

On Saturday March 16th, the steamer Atlantic from Baltimore will carry 3480 head of sheep to London, Eng.

The Summer schedule of the York River Line went into effect March 5th, See Advertisement in Travelers Guide in this Magazine.

It is proposed to build a Dummy Road at Ocean City instead of one operated by electricity. It would be much cheaper and just as efficient.

Mr. Joshua Levering, President of the Young Men's Christian Association of Baltimore, is prominently mentioned as the Prohibition Candidate for President of the United States.

The well known trapper, Abram Mickey, has captured this winter in the mountains near Pen-mar, Washington County, 13 foxes, 7 wild cats, 6 raccoons, 11 possums and 25 muskrats.

Thaddeus Crapster, of Glenwood, Howard County, has been appointed by Gov. Brown Inspector of Hay and Straw for Baltimore City, succeeding Mr. Sellman. This is another good appointment.

The Council of Improved Order of Red Men of Maryland held their annual session in Hagerstown beginning February 20th, one hundred delegates were present. There are 4000 Red Men in Maryland.

The Synepuxent Beach Company will hold a meeting on the 20th March, when the question of selling out to the Syndicate headed by Mr. Searles, will be considered. We understand the sentiment favorable to a sale is growing.

Mr. Thomas B. Preston, of Wegerton, possesses the original Deed of the transfer of Harpers Ferry, then known as "Dear Bough" of the Province of Md., to Robert Harper, by Horatio Sharp, Governor: Consideration, Ten Pence Stirling in gold or Silver to be paid upon the Feast of Assumption and of St. Michael, at the City of St. Mary's.

Capt. Joseph H. Spedden, Jr., last spring bedded \$125 worth of oysters on his grounds at the head of LeCompte's bay. This winter he has sold from them \$500 worth, and has still enough for family use during the season. He has made more net gain from his insignificant investment than many farmers on lands worth \$3000 or \$4000.

The Steamer Cambridge of the Baltimore, Chesapeake & Atlantic Railway Co., is being put in thorough repair for the coming season. Many improvements are being made in order to accommodate the summer travel. This steamer will run between Baltimore & Claiborne connecting with the trains for all stations on the road to Ocean City.

Joseph S. B. Hall, a retired farmer living near Berlin, Worcester County, Md., attempted to drive across Synepuxent Bay on the Ice on February 18th. He got about half way across when the ice gave way drowning his horse, and the body of Hall was found on the ice near by frozen stiff. The Buggy did not go down with the horse, but was intact near the body of Hall.

The great bear raid on the B. & O. stock in New York recently, fell flat. It is a singular fact that it should have been made a little previous to the finishing of the Belt Tunnel. Was it prompted by jealousy? it looks, that way, you know it will shorten the time between Baltimore and New York about 20 minutes. The Royal Blue Line will be in fine trim for the run, and will cover the distance on time every trip.

## ORCHARD AND GARDEN.

We call especial attention to this list of Nurserymen, Seedsmen, Florists, etc. They all issue good Catalogues and will cheerfully send you one free, if you write referring to the Maryland Farmer. We believe every one of them to be reliable.—[Ed. M. F.]

**Amer. Exotic Nurseries,** R. D. Hoyt, Mngr' Seven Oaks, Fla.

**E. Moody & Sons,** Lockport, N.Y. Niagara Nurseries. Established 1839

**Crosman Bros,** Seeds and Plants, wholesale and retail. Rochester, N.Y.

**F. Barteldes & Co.,** Kansas Seed House. Lawrence, Kas.

**P. J. Berckmans,** Trees, plants, etc., adapted to the South. Augusta, Ga.

**Green's Nursery Co.,** Rochester, N.Y. Send for Ill. Cat. & Guide.

**Royal Palm Nurseries.** Reasoner Bros., Oneco, Florida

**Berlin Nurseries,** Wholesale and Retail, J.G. Harrison & Son, Berlin, Md.

**T.W. Wood & Sons,** Garden and Field Seeds Richmond, Va.

**Wm. Parry,** Pomona Nurseries, Parry, New Jersey.

**Jennings Nursery Co.,** Trees for the South, Thomasville, Ga.

**West Jersey Nursery Co.** Send for Cat'l'g. Bridgeton, N. J.

**E.B. Marter, Jr.** Seeds, Roots & Plants. Price list free. Burlington, N. J.

**Samuel Wilson,** Seeds, Plants and Trees, Mechanicsville, Pa.

**Strawberry** and Cabbage Plants, Onion Sets, Cleveland Nursery Co. Rio Vista, Va

### THE CAULIFLOWER.

Most growers of vegetables hesitate to attempt the extensive raising of Cauliflower and this causes it to bring so high a price in our markets. 'Wood's Earliest Snowball, which we illustrate, is a remarkably sure header. Its introductory work is the same as for early cabbage; but it needs extra manure, and plenty of water, especially after it begins to head. Plenty of manure, water, and good culture, the requisites for a successful crop. We are favored with the illustration by the firm of T. W. Wood & Sons, of Richmond, Va., who think the Northern markets could easily be supplied if their Earliest Snowball was more generally known to the Southern truckers.

Small fruits and orchards pay, and require less work than general farming.

Dwarf pears are becoming very popular for orchard planting, and those having them in bearing, find the results of their efforts very satisfactory.

For mildew on roses, rub down in a gallon of soft water one pound of soft soap; with the solution syringe the upper and under surface of the foliage and the mildew will disappear as if by magic.

Spread over old orchards needing assistance a good dressing of compost, and plough it lightly or harrow it thoroughly in. Scrape the bark off scaly trees and apply a mixture composed of one pound of flour of sulphur and one quart of fine salt and a gallon of soft soap. Wash with this mixture the trunk and larger limbs.

### Sorry He Hadn't a Gun.

The masher was in all his glory, walking stick, one eyeglass, trousers, and everything perfect. The old farmer looked in wonder. At last he said; "What things we du see when we hain't got no gun."

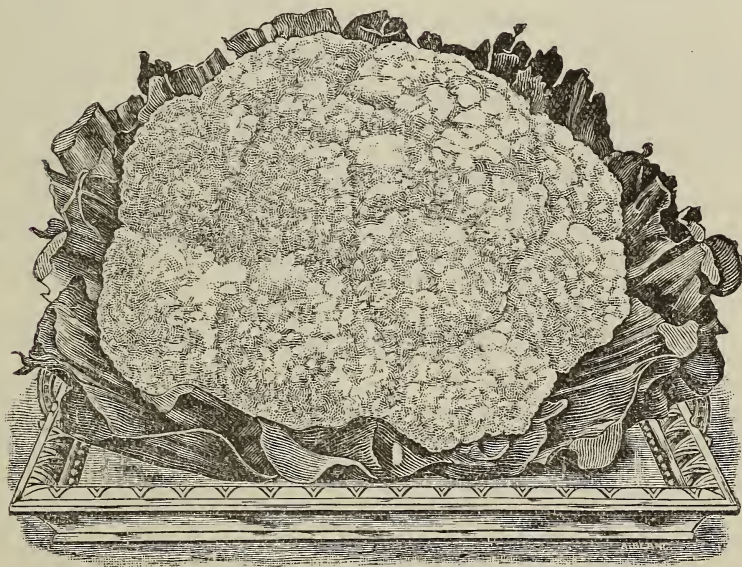


**Improved Jersey  
Wakefield.**

The oldest seed house in Baltimore, well known throughout our country, John Bolgiano & Co, gives us an illustration of their famous Jersey Wakefield improved.

The Cabbage is one of the largest crops in this section of our State, and every improvement in it is of the greatest advantage to hosts of truckers.

It is on this account we wish to call attention to the substantial improvement made by this firm in this vegetable.



**WOODS' EARLY SNOWBALL CAULIFLOWER.**

**Asparagus.**

To make a good asparagus bed, the plants may be set in the fall or early spring. Prepare a piece of fine leamy soil, to which has been added a liberal

dressing of good manure. Select two year, or strong one year old plants, and for a garden, set in rows 18 to 20 inches apart, with plants 10 to 12 inches in the row.



## THE HOUSEHOLD.

Byadere stripes are quite a good deal used.

Fancy coverts with a herring-bone stripe are good.

Corded, tufted, crinkly matelasse and hairy effects are aimed at.

Simplicity nowadays makes the most formal banquet as well as home entertainments.

For young ladies' dancing gowns, chiffon and silk mull are the prettiest materials.

Small figures are decidedly the thing, few flowered or running designs being used.

For evening dresses the crinkley silk crepon and Moussiline desoie are largely used.

Genuine antique hourglasses are heirlooms that may now be fashionably brought to the fore.

Black silk with a decided cord neither as fine as that of faille, or as coarse as bengaline are greatly in demand.

Some of the elegant cloth costumes have sleeves of the new checked or striped velvet in two or more colors.

Changeable effects are sparsely used, the two toned silks having become vulgarized by using them for linings.

Naturally, flowers are most esteemed as decorations on the every day table no less than on formal occasions.

The black armure's and fancy bengalines are especially good, as are also the boquet taffetas and Satin antique.

To a young girl of fifteen or sixteen, a black skirt with a light colored bodice represents the most desirable of toilets.

For more formal luncheons preference is given to the polished table, covered only in the centre and under each plate.

Parisian women are, some of them, wearing hand-painted gowns. One in which a well known leader of fashion in that city appeared was dull white silk, and had over the plain flaring skirt large painted baskets loaded with flowers.

Nacre buttons with buckles to match for collar and belt are among the Parisian novelties. They come in various styles and are very effective. Another pretty conceit in the way of buttons, which are now sold in the New

York shops for the first time, is porcelain buttons painted with tiny watteau figures. On a basque of brocaded silk in light colors these Louis XVI buttons are very "Chic."

Grass stains if soaked in alcohol and rubbed, will come out.

A handful of hay in a pail of water neutralizes the smell of paint.

Washing pine floors in a solution of one pound of copperas dissolved in one gallon of strong lye gives oak color.

To wash Cashmere: Wash in hot suds with a little borax added; rinse in strong indigo blue water; iron while damp.

White beeswax folded with silk and woolen goods will keep them, if they are perfectly clean, from turning yellow.

To relieve the intense itching of frosted feet dissolve a lump of alum in a little water and bathe the part with it, warming it before the fire. One or two applications are sure to give relief.

A method to prevent flannel from shrinking is to hold it over the steam of boiling water. When thoroughly damp it can be immersed. This should be done before the flannel is cut. Skeins of wool to be used in knitting or crocheting are often treated in the same way.

It is said that moths in furniture may be destroyed by placing the furniture in a warm, close room, and frequently sprinkling the under side of the seats, etc., with carbolic acid. The warmth of the room hatches the eggs, and the larva are immediately killed by the fumes of the acid.

**Codfish Pudding.**—Take two cupfuls of cold mashed potatoes, put them over the fire, add half a cup of milk, and stir constantly until the potatoes are hot. Beat until light, then add one cupful of shredded codfish, beat again, stir in carefully the well-beaten whites of two eggs, a saltspoonful of pepper; turn into a baking dish, brush the top with the yolk of an egg, and bake in a quick oven fifteen minutes.

## THE POULTRY YARD.

Our readers will receive every attention, if they will address any of the Poultrymen in the select list below, and state their wants.—[Ed. M. F.]

**Lewis C. Beatty**, Washington, N. J. Fancy Poultry All varieties. Circular free.

**The Best Brooder**, \$5.00. Send for Circular. G. S. Singer, Cardington, Ohio.

**Jacob Bower**, Kilbuck, Ohio. Black Langshan's. Birds and Eggs for Sale.

**Capon** Instruments post paid \$2.50. G. P. Pilling & Son, 115 S. 11 St., Philadelphia, Pa. Book free.

**Barbour & Son**, Eggs ½ Price. 13—\$1. 39—\$2. 10 Var. E. Ave. Rochester, N. Y.

**B. Hammerschmidt**, South Buffalo, N. Y. Bl'k Javas Wyandotte, Leghorn, Minorca

**F. L. Hooper**. Pearl Guinea Fowls. Station B. Baltimore, Md.

**S. H. Merryman**. \$8.00 Incubators. Bosley, Md.

**Enterprise Poultry Yards**. Annville, Pa. High Class Poultry. Circular free.

**O. K. Feed** is a Meat and Bone Ration for Poultry. C. A. Bartlett, Worcester, Mass.

**Wm. M. Hughes**, Box 56, Newport, R. I. Bl'k Langs B. P. Rocks. Games, Bantams.

**A. F. Williams**, Monitor Incubator, best in the country. Bristol, Conn.

**O. J. Putnam & Co**, Barred & White P. Rocks. Eggs and stock. Leominster, Mass.

**Lansdale Iron Works**. Cast Iron Poultry Troughs, and Fountains. Lansdale, Pa

**Von Culin Incubator Co**. Incubators. Delaware City, Del.

**Orrs Mills** Poultry Yards. L. Brahmas. P. Rocks Wyandottes. P. Ducks. Orr's Mills, N. Y

**F. B. Zimmer & Co**, Gloversville, N. Y. Beagle Hounds, Leghorns, PR'ks, Bants

**Hammonton. (N. J.) Incubator Co**, Incubators and Brooders

**John W. Silcott**, Snickersville, Va. Buff Cochins Fine young trios \$5. Egg \$1. for 15.

**Geo. A. Friedrichs**, Erie, Pa., White Fowls—Polish, Cochins, Leghorns, Catalog free

**Prairie State Incubators & Brooders**. Selling Agt H. A. Dreer, 714 Chestnut St. Phila. Pa

**J. D. Engel**, Middleburg, Md., 8 kinds of Poultry Eggs \$1.00. 20 kinds Seed Potatoes.

**Caponize** Instructions mailed free. William H. Wigmore, 107 S. 8th St., Philadelphia, Pa.

**S. C. White Leghorns** only. Eggs \$1.00 per 13. W. J. Richardson, Owings Mills, Md

**Black Langshans**. Eggs \$1. per 13; Cockerels \$1.50 S. W. North, Berkeley Sp'gs, W Va

**Eggs and Stock**, Bar'd P. Rock. Mammoth Bronze Turkeys. Edith E. Simmonds, Finksburg, Md

**Maryland Agricultural Co.** Poultry supplies. 32 W. Pratt St.

## THE POULTRY AND PIGEON SHOW.

This exhibition held February 28—March 5, proved to be one of the best, if not the very best, ever held in Baltimore. The interest taken by leading farmers brought out many superb specimens of both poultry and pigeons. The collection by Miss Garrett was very fine and her generous contribution to the premiums of the show were highly appreciated by all. In every respect except that of money the Show was a decided success.

We hear that this Organization has perfected an arrangement with the fanciers of Washington, D. C., by which their forces will hereafter be united, and the next show will be held in Washington. We prophecy for it not only success in exhibits, but also in finances, when the two interests are joined.

We congratulate the managers of the present Show upon what they have accomplished, and give below a list of some of the premiums.

For 12 heaviest hen eggs, Horace Slingsluff, first premium.



Rouen Ducks, S. M. Kefauver, first premium.

Miss F. Emily Bay, Finksburg, received first premium for any other variety Drakes and Ducks. Some of her white crested Ducks were very fine.

Light Brahma Cocks and Hens, Chas. E. Ford, first premium.

Dark Brahma, Cocks, Hens and Pullets, H. M. Thomas, first premium.

White Cochin Cock, S. M. Kefauver, first premium.

Black Java Hens, H. M. Thomas, first premium.

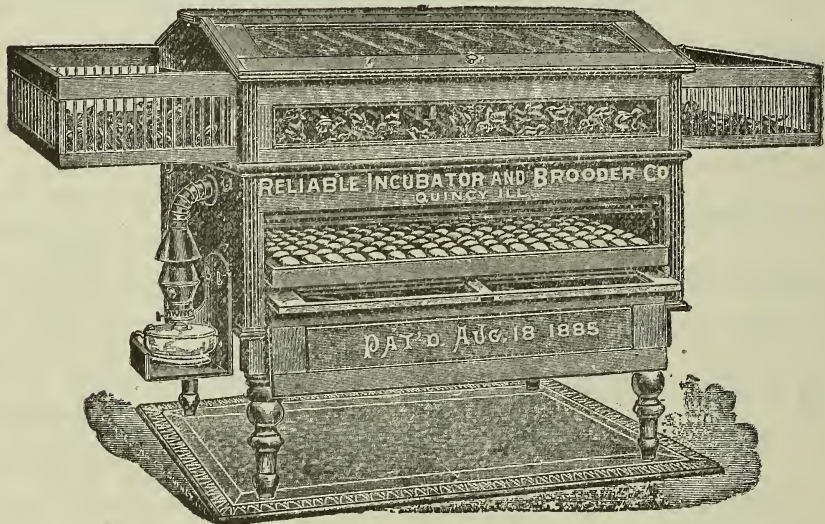
S. C. White Leghorn Cocks, W. S. Jones, first premium.

White Minorca Hens, S. M. Kefauver first premium.

White Crested Black Polish, Miss F. Emily Bay, first premium.

White Crested White Polish; Cocks and Hens, Miss F. E. Bay, first premium.

White Dorking Cocks and Hens, H. M. Thomas, first premium.



Barred Plymouth Rock Cock, W. T. Levering, first premium.

Barred Plymouth Rock Hens, H. C. Shirly, first premium.

White Plyinouth Rock Cock, Hens and Pullets, S. M. Kefauver, first premium.

Buff Plymouth Rock Pullets, Horace Slingluff, first premium.

Silver Wyandotte, Cocks, Hens and Pullets, Golden. S. M. Kefauver, first premium.

Wyandotte Cocks, Hens and Pullets, Frank Randall, first premium.

Houdan Cocks and Hens, H. M. Thomas, first premium.

Black Breasted Red Game Cocks, H. Y. F. New, first premium. Wade H. S. Warfield, Second premium.

#### Reliable Incubator Brooder.

Young chickens are always at apremium and scientific management approves the Incubator and Brooder. One of the latest and best is illustrated above and speaks volumes to those interested. Now is the time to write to the manufacturers and get the information you need.



## UNITED STATES PATENTS

## GRANTED RECENTLY.

Relating to Agricultural Implements  
Etc., Reported for the Maryland  
Farmer, By Chandless & Chandless,  
Washington, D. C.

- 533.055 Cultivator.
- 533.060 Folding Crate,
- 533.119 Agricultural Plow.
- 533.161 Stump or Rock Puller.
- 533.169 Hoe or Shovel.
- 533.288 Potato Digger.
- 533.337 Side Hill Plow.
- 533.347 Thrashing Machine.
- 533.359 Hay Loader and Stacker.
- 533.431 Stump Extractor.
- 533.480 Seed Planter.
- 533.452 Check Row Corn Planter.
- 533.510 Plow Cultivator Tooth.
- 533.514 Hay Rake and Loader.
- 533.529 Fender for Grain Separator.
- 533.756 Corn Harvester.
- 533.906 Fence Post.
- 533.952 Combined Check Rower &c.
- 534.017 Wire Fence Stay.
- 534.122 Combined Plow, Chopper & Planter.
- 534.204 Colter.
- 534.216 Apparatus for Steam Cultivation.

We would call especial attention to the advertisement of Arthur M. Easter, Esq. in the Guide, on the first page of the colored sheet in this number. Those interested in his specialties or requiring the services of an attorney will do well to bear him in mind.

#### The Treatment of Disease by Electropoise.

Those of our readers who were benefited by the new treatment of disease by Electropoise, at the office which was opened on N. Charles St. near Clay, some year or so ago, will be glad to hear that Dr. A. P. Davis, 333 N. Charles St. General Agent for the State of Maryland, has resumed the treatment at the above address. Dr. Davis is an intelligent, courteous gentleman: he is pleased at all times to explain the treatment to visitors.

## Chemical Fertilizer.

The spring time will soon be here, and we take pleasure in informing the readers of The Maryland Farmer, that Messrs Wm. Davison & Co., whose offices are in room 18 Firemans Building, corner South and Second Sts., Baltimore, Md., are in as good a position as ever, to supply their customers with their well known and approved chemical fertilizers, as also the Chemicals for those who prefer preparing their own mixtures. As these fertilizers and chemicals have earned a widespread reputation for their excellent results on the various crops wherever applied, the demand will soon be very heavy, and our friends should apply as early as possible, to ensure prompt delivery.

## A Valuable Seed Book.

Every gardener and farmer should send for a copy of T. W. Wood & Sons' New Seed Book for 1895. It gives such practical information about the culture of all crops. Monthly operations for the farm and garden, and hints as to what can be most profitably grown. It is especially valuable to Southern farmers and gardeners, and will be mailed free to all readers of the Maryland Farmer who will write for it, to T. W. Wood & Sons, Richmond, Va.

## Strange

waste of harness and shoe-leather! Vacuum Leather Oil is best. Get a can at a harness- or shoe-store, 25c a half-pint to \$1.25 a gallon; book "How to Take Care of Leather," and swob, both free; use enough to find out; if you don't like it, take the can back and get the whole of your money.

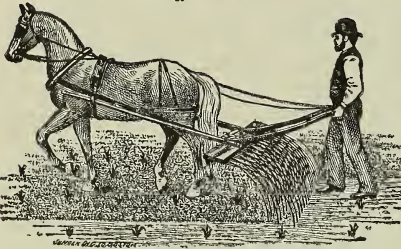
Sold only in cans, to make sure of fair dealing everywhere—handy cans. Best oil for farm machinery also. If you can't find it, write to

VACUUM OIL COMPANY, Rochester, N. Y.

**23 Cents** per rod buys the celebrated JAYNES WIRE FENCE, No. 10, galvanized wire, 5ft. high. Hog tight. Horse high, and Bull proof. Address CLYDE WIRE FENCE CO., Clyde, N. Y., or Bucyrus, Ohio.

Agents write for terms.

## The Zephaniah Breed Weeder and Cultivator,



The most valuable farm tool now made. Its use means fields clean of weeds without hand hoeing or hand weeding. Works 1 acre clean in 30 minutes. For all crops on the farm, in the garden or nursery. Indispensable to all who once use it. Saves 50 to 75 percent of the cost of ordinary cultivation. Its timely use increases crops, and is their salvation in times of drouth. Perfect satisfaction or we refund the money.

I was perfectly satisfied with the Weeder on the first trial, and I like it better (if possible) every time it is used. I worked corn, cotton, peanuts and Irish potatoes with it, with perfect satisfaction. C. E. Ferguson, Handsome, Va. I used your Weeder on twenty acres of corn and am more than satisfied with it. Did not use a hoe at all. Have as good corn as my neighbors have who hand-hoed theirs.

Gentlemen: The Weeder purchased of you this season has given me great satisfaction, and I consider it one of the best farm implements I have ever used. I have used it in cultivating corn and tobacco, and think that every farmer and trucker should have one.

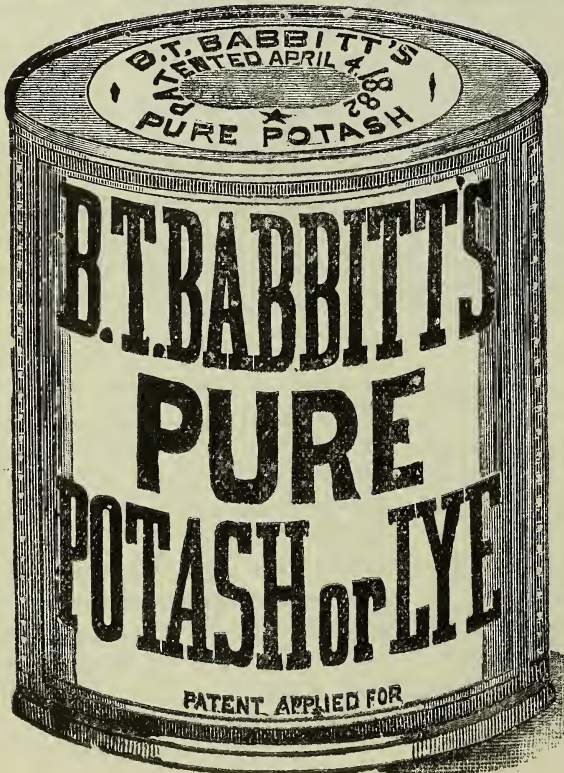
Yours truly,

John W. Hunter, Wellsburg, W. Va.  
P. A. L. Conte, Wayside, Md., August 13, 1894.  
Send to-day for circular illustrating 8 styles and sizes of Sulky, Walking and Hand Weeders, and "How I Grow 300 to 400 Bushels Potatoes per Acre in Massachusetts," by C. W. Russell, Esq., Upton, Mass.

Please mention this Paper.

THE Z BREED WEEDER CO.,

26 Merchants Row, Boston, Mass.



THE  
STANDARD  
FOR  
PURITY  
AND  
STRENGTH  
Throughout the  
WORLD.

Southern Office:  
Cheapside and Water St.  
BALTIMORE, MD.

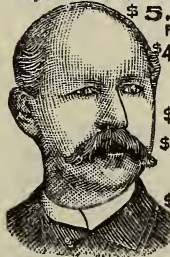


"The Cottage Farm"

## Dorset Horn Sheep,

Bred from Imported and American Ewes,  
also, A. J. C. C. Jerseys of fashionable butter  
strains. Correspondence Solicited,  
GALLOWAY CHESTON, Harwood, Md.

## W. L. DOUGLAS \$3 SHOE IS THE BEST. FIT FOR A KING.



\$5. CORDOVAN,  
FRENCH & ENAMELLED CALF.  
\$4.35 FINE CALF & KANGAROO.  
\$3.50 POLICE, 3 SOLES.  
\$2.50 2. WORKINGMEN'S.  
EXTRA FINE.  
\$2.17 3 BOYS SCHOOL SHOES.  
LADIES.  
\$3.25 2.17 3 BEST DONGOLA.

SEND FOR CATALOGUE  
W. L. DOUGLAS,  
BROCKTON, MASS.

Over One Million People wear the

## W. L. Douglas \$3 & \$4 Shoes

All our shoes are equally satisfactory

They give the best value for the money.  
They equal custom shoes in style and fit.  
Their wearing qualities are unsurpassed.  
The prices are uniform, stamped on sole.  
From \$1 to \$4 saved over other makes.

If your dealer cannot supply you we can.

## DR. M. CURBY BURKHARD'S

### FEMALE PERIODICAL PILLS

LADIES: By special request from patient,  
at a distance, who can not personally consult  
me, and being unable to answer the many cor-  
respondents, and furnish at short notice the  
Favorite Prescription, as used by me dur-



ing a practice of twenty-  
five years, have con-  
sented to prepare and  
supply to you this un-  
rivalled remedy for Fe-  
male Irregularities.  
The climax of medical  
chemistry attained in

Dr. Burkhard's  
Periodical Pills, be-  
ing six degrees stronger  
than any known medi-  
cine, yet so mild that the feeblest can take  
them with perfect security; yet so powerful  
in their effects that they can be safely called  
a Never-Failing Regulator. Each box con-  
tains fifty pills, with full directions enclosed.  
Price, Five Dollars per box. Sold by drug-  
gists or sent by mail upon receipt of price.  
Refuse all patent medicines. Take only the  
prepared prescription of a physician in prac-  
tice. Dr. M. Curby Burkhard, the reliable  
specialist, Office, 107 Park Avenue, Baltimore,  
Md. Cut this out for future reference.

## This Is Striking.



MOOD  
OF

The Climax Gas Apparatus is the latest  
modern development in  
gas lighting. Suitable for any House, Hotel  
or Institution in City or Country. With  
these wonderful improvements gas is pro-  
duced at 65c. per 1000 cubic feet and is bril-  
liant, smokeless and clear. Equal to city  
gas at half the cost. You can use the Wels-  
bach Burner with it and do cooking, laundry  
work, heating, pump your water, etc. We  
make a special apparatus for lighting towns,  
etc. Can supply fuel gas at 25c., (also suit-  
able for Welsbach Burners.) or illuminating  
gas at 65c. Come and see our apparatus.  
All work warranted to prove satisfactory  
and trial allowed before payment.

C. M. KEMP MFG CO.,

Telephone 1518. Guilford Ave., and Oliver St.

## SPRAY PUMPS

EXPRESS PAID

Satisfaction Guaranteed or Money Re-  
funded. Endorsed by Leading Ento-  
mologists. 60,000 in use. We are U.S. Headquarters  
for Spray Pumps, and Insecticides. Catalogue, Spray  
Calendar, and full Treatise on Spraying, FREE.

\$17 SPRAYING OUTFIT FOR \$5.50

P. C. LEWIS MFG. CO., Box 102 Catskill, N.Y.

## 7% Call Loans

Our new Coupon Bonds are the Safest Secur-  
ities ever offered, and are payable 'on de-  
mand.' Prudential Trust Co., Phila., Pa.

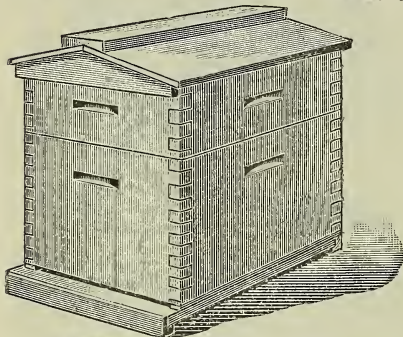
## National Mechanic's Bank OF BALTIMORE.

With its large Capital, Surplus and Unsur-  
passed Facilities, offers its services to firms,  
individuals and corporations contemplating  
a change in their banking relations.



# HEADQUARTERS. BEE KEEPERS' SUPPLIES FOR 1895.

Roots' Goods at A. I. Roots' Prices.



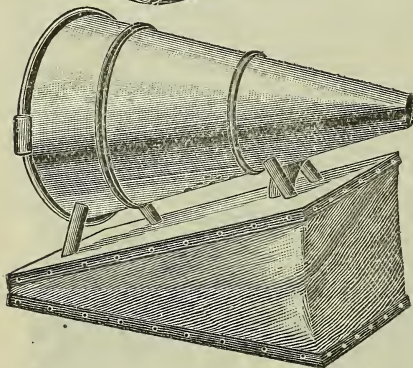
No. 1 hive 1½ story complete with nails and foundation wax.

Set up each.	5 in flat.	10 in flat.
2.00	6.00	12.00

No. 6 hive same as No. 1 except with D. Cases instead of section holder.

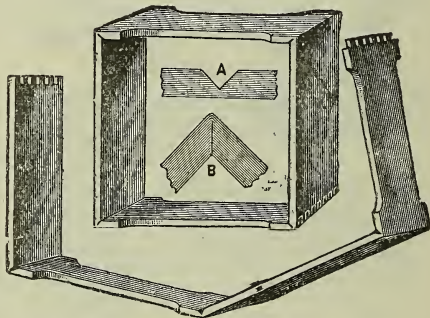
2.25	6.00	12.00
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Also No. 1 E, No. 2 E and No. 5 carried in Stock.



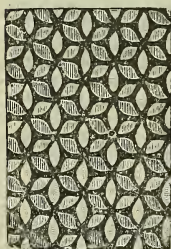
Clark's Smoker  
Cranes' Smoker

.50  
1.75



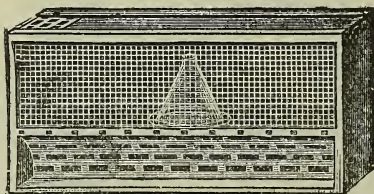
## BEST BASSWOOD SECTIONS.

1 lb. 4¼ x 4¼ x 1¾	per 100	.50
1 lb. " " "	" 500	1.50
1 lb. " " "	" 1000	3.00
2 lb. 5¼ x 6¼ x 1¾	" 500	2.00
2 lb. " " "	" 1000	3.75
2 lb. 5½ x 5½ x 1¾	" 1000	4.50
4¼ x 4¼ x 7 to foot	" 500	1.50
" " "	" 1000	3.00



## FOUNDATION WAX.

Medium Brood 5 to 6 sq. ft. per lb.	.47
Light Brood 7 to 8 sq. ft. " "	.50
Thin Surplus 10 sq. ft. " "	.57
Extra Thin 11 to 12 sq. ft. " "	.67



Alley's Queen and Drone Trap 50c.

Queen's and Bees furnished at regular rates.

Get your Bee Goods early and be prepared for swarms.

Send for catalogue giving full list of Bee Supplies.

## RAWLINGS IMPLEMENT CO.,

(Formerly Baltimore Farm Implement Co.)

209 South Charles Street,

Baltimore, Md.



**THE "F. F." CORN PLANTER AND CORN DRILLS.**

\*\*\*\*\*

We would like to tell you all about our Corn Planter—May we? **Send for Catalogue** and you will have the whole story; also full description of our famous "**Tiger Line**" of farm implements. **WE ARE LEADERS** on Planters, as we are on Transplanters, Press Drills, Mowers, Tedders, Self Dump Hay Rakes, Loaders, Seeders, and Disc Harrows. Cut this out and send to us when you write. It will pay you. J 12

**STODDARD MFG. CO., DAYTON, OHIO.**

**Furrowing Attachment Assures EVEN Depth, Start, Growth, Crop.**



**BARKLEY**  
**\$10.00 ROAD CARTS**  
and upwards.  
For Style and Finish they  
can not be surpassed.

# HARNESS

**FROM \$5.00 UPWARDS.**  
This cut shows our \$5.50 Harness  
which we make a specialty of and



**BARKLEY**  
**\$55.00 BUGGIES**  
a Specialty. We guar-  
antee satisfaction.

We also manufacture a complete line of **GOAT and DOG HARNESS** from \$1.50 to \$12.50 per set. **GOAT or DOG CARTS** from \$4.00 to \$7.00. Write for **GOAT CATALOGUE.**



**BARKLEY**  
**\$70. PHAETON**



**CARTS and BUGGIES**

For 22  
consecutive  
years  
we have

**DEFY COMPETITION**


Read our book of voluntary Testimonials from our customers and see what they think of Barkley Goods and Business Methods. It will pay you to do so.



**BARKLEY**  
**\$152. CABRIOLET**

**FRANK B. BARKLEY MFG. CO. GARDEN CITY BLOCK, CHICAGO, ILL.**

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Our new Catalogue is a grand portfolio of all the latest and best styles of Organs and Pianos. It illustrates, describes, and gives manufacturers' prices on Organs from \$25.00 up, and Pianos from \$150 up. It shows how to buy at wholesale direct from the manufacturers, and save over 50 per cent.

**THE CORNISH ORGANS AND PIANOS**

Guaranteed for 25 yrs., have been played and praised for nearly 30 yrs.; to-day they are the most popular instruments made. Secure our **SPECIAL TERMS of Credit, framed to suit the times.** Remember this grand book is sent **FREE.** Write for it at once.

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# CORN DRILLS

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# HAY RAKES

—  — SELF AND HAND DUMP.

*These are not the Times to Experiment.*

## BUY STANDARD GOODS.

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We have been in this busiess for a half a Century.

Our Trademark is, therefore, a Guaranty.

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Fifty years of experience enables us to give you prices on **Standard Goods**, at less than others charge for **Experiments**.

If you want to put your '95 crop of corn in economically; and if you want a Rake that will not rattle to pieces in one season, write us.

## EMPIRE DRILL CO.,

### BALTIMORE, MD.

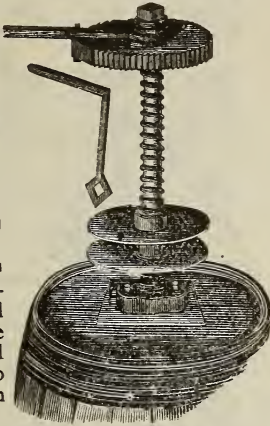
Manufacturers also of the Empire Grain and Fertilizer Drills.  
The only force feed Drill on the market to-day.



# TOBACCO SCREWS.

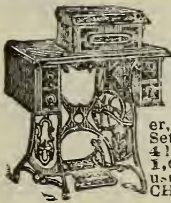
To Tobacco  
Growers,  
Commission  
Merchants,  
Planters & Others.

All the different sizes and Styles, and of the most approved design made to order at my Iron Foundry.



## JAMES BATES,

Cor. President and Pratt St., Baltimore, Md.



A \$65.00  
**Sewing Machine!**  
For \$18.00.

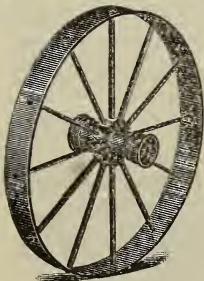
Black Walnut Furniture Cover, Drop Leaf, 5 Drawers and Full Set of Attachments. Warranted. 4 lb Taper Family Scale, \$1.00. 1,000 other Articles 1/2 to 1/3 usual prices. Send for Catalogue. CHICAGO COTAGE CO., Chicago.

## FOR BEST HAY PRESSES [STEEL PRESSES]



SELF FEEDER  
ADDRESS P.K. DEDERICK & CO.  
35 DEDERICK'S WORKS, ALBANY, N.Y.

## TRUCK WHEELS —FOR— Farm Wagons.



We manufacture the neatest, strongest and best truck wheels made by any concern in the United States. Agents wanted in every country. Agents make \$150 per month selling these wheels. Write for circulars, etc. Mention this paper.

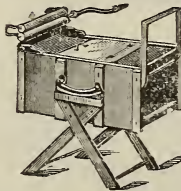
Havana Metal Wheel Co., Havana, Ill.

## Farquhar Keystone Corn Planter

Warranted the best Corn Dropper and most perfect Force-feed Fertilizer Distributor in the world. Send for Catalogue. ADDRESS, A. B. FARQUHAR CO. YORK, PA.

SEND FOR LARGE ILLUSTRATED CATALOGUE.  
THE SEPARATOR

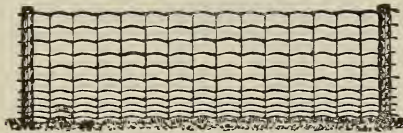
(Warranted L.)  
Pennsylvania Agricultural Works York, Pa.  
Lightest draft and most simple, economical and perfect in use. Wastes no grain cleans it ready for market.  
Address A. B. FARQUHAR, York, Pa.



## The Rocker Washer

has proved the most satisfactory of any Washer ever placed upon the market. It is warranted to wash an ordinary family washing of 100 PIECES IN ONE HOUR, as clean as can be washed on the washboard. Write for prices and full description.

ROCKER WASHER CO.  
FT. WAYNE, IND.  
Liberal inducements to live agents



## A Perfect Park Fence

Is shown in our January "HUSTLER," with a full view of ten large Elk. It surrounds the P. W. W. F. Co.'s Park of 40 acres, confining also a herd of 15 deer. We call it perfect because no animal gets in or out "without a pass." Bounded on three sides by public roads, it has been thoroughly tested by dogs. With posts four rods apart there is no sagging, no obstruction to the view, and above all it costs less than a paling fence for the same purpose. Send for free copy. Address PAGE WOVEN WIRE FENCE CO., Adrian, Mich.

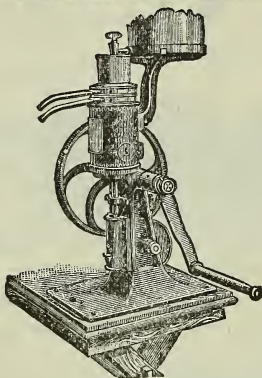
Warranted the Most Practical Machine Made



## BENNETT'S IMPROVED STUMP PULLER.

Sent anywhere in the U. S. ON THREE DAYS' TRIAL  
Screw, cable & hand power  
LIFT 15 TO 150 TONS  
3 styles 9 sizes. \$25 to \$150  
Cat. with 1000 Rec. Free  
H. L. Bennett & Co.  
WESTERVILLE, O.

## HAVE YOU FIVE OR MORE COWS?



If so a "Baby" Cream Separator will earn its cost for you every year. Why continue an inferior system another year at so great a loss? Dairying is now the only profitable feature of Agriculture. Properly conducted it always pays well, and must pay you. You need a Separator and you need the BEST—the "Baby." All styles and capacities. Prices, \$75.00 upward. Send for new 1895 Catalogue.

### THE DE LAVAL SEPARATOR CO.,

Branch Offices: General Offices:  
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*Maryland Agricultural Co.,*

Special selling agents,

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**WOVEN WIRE FENCE**

Horse high, bull strong  
pig and chicken tight.  
Make it yourself for  
**13 to 20 cents**  
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50 styles. A man and boy can make  
40 to 60 rods a day. Catalog free.  
**KITSELMAN BROS., Ridgville, Ind.**

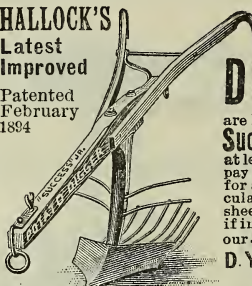
**MONEY MADE**

selling **Beveridge's Automatic Cooker.** Best cooking utensil. Food can't burn. No odor. Saves labor and fuel. Fits any kind of stove. Agents wanted, either sex. Good Pay. One agent sold 1730 in one town.

Write for terms  
**W.E. BEVERIDGE, Baltimore, Md.**

**HALLOCK'S**  
Latest  
Improved

Patented  
February  
1894



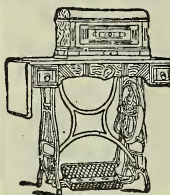
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DIGGERS**

are labor savers and the  
**Success Jr.** does it the  
at least expense. It will  
pay you to write at once  
for agents terms. A cir-  
cular and testimonial  
sheet will be mailed you  
if interested, it explains  
our Anti-Clog Weeder also.

**D. Y. Hallock & Son,  
YORK, PA.**

Fruit Saved and Insects Killed  
by using the **"Daisy" Sprayer**

It is well made, has rubber hose, will  
not get out of order, throws a constant  
stream 50 ft. A record of 150,000 sold in  
past 10 years insures satisfaction.  
More "Daisy" Sprayers are in use than  
of any other make. At your dealers, or  
agent, express paid, on receipt of \$1.50,  
with latest RECIPIES. Agents Wanted.  
PATENTED **W. M. JOHNSTON & CO., Box 12, Canton, O.**



Wholesale and Retail.

**White Sewing  
Machine Agency.**

Butterick Pattern Agency.

**W. S. FAUST & CO.**

**\$25.**

224 S. Broadway,

PROPRIETORS.

BALTIMORE, MD.

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HORSE AND CATTLE POWDERS**

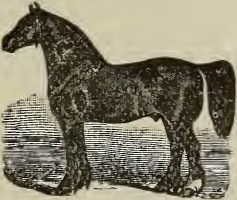


No HORSE will die of COLIC, ROTS or LUNG FEVER, if Foutz's Powders are used in time.  
Foutz's Powders will cure and prevent HOG CHOLERA.  
Foutz's Powders will prevent GAPS IN FOWLS.  
Foutz's Powders will increase the quantity of milk and cream twenty per cent., and make the butter firm and sweet.  
Foutz's Powders will cure or prevent almost EVERY DISEASE to which Horses and Cattle are subject.  
FOUTZ'S POWDERS WILL GIVE SATISFACTION.  
Sold everywhere.

DAVID E. FOUTZ, Proprietor,  
BALTIMORE, MD.

**"SHADELAND" THE MOST  
EXTENSIVE**

**Pure Bred Live Stock Establishment  
IN THE WORLD**



New Importations constantly arriving.

Rare Individual Excellence and Choicest Breeding.

**Breeders and Importers of**

Clydesdales,	Standard Bred Trotters
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French Drafts,	Saddle Horses,
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Also, Dealers in Real Estate.

Our customers have the advantage of our many years experience in breeding and importing; Superior Qualities; Large Variety and Immense Collections; opportunity of Comparing Different Breeds; and Low Prices, because of Our unequaled Facilities, Extent of Business and Low Rates of transportation. No other Establishment in the World offers such advantages to the Purchaser. **PRICES LOW! TERMS EASY.** Visitors Welcome. Correspondence Solicited. Circulars Free.

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When writing please mention this paper.



S. W. SMITH, Cochranville, Chester Co., Penna.

**BERKSHIRE**, Chester White, Jersey Red and Poland China PIGS. Jersey, Guernsey and Holstein Cattle. Thoroughbred Sheep. Fancy Poultry. Hunting and Hound Dogs. Catalogue.

**NOTICE! SOMETHING NEW!**

**Dr. Spranklin's Bay Side Stock Farm.**



Salt Water Bathing and Soak for Horses in the Chesapeake Bay, only two and one-half hours run on the Steamer Emma Giles to Spranklin Wharf, where they receive professional care, board and medicine at \$10 per month. Horses sent for and delivered. Disabled animals sent to Box stall for all Five hundred acres of land, with spring water in every field. Special rates given to firms with several or more horses to winter or pasture. The largest and most complete establishment of its kind in the U. S. Horses are sent here for treatment from every section of the country. For further information all at

boat in a ambulance free.

**MARYLAND VETERINARY HOSPITAL,**

Telephone—1565. 1311 to 1321 Harford Ave.,

EVERYTHING FOR THE HORSE. Less than market prices.

ESTABLISHED 1785.  
**SAMUEL HUNT'S SONS.**  
26 E. BALTIMORE STREET, Baltimore, Md.



**Two O. I. C. HOGS**

**Weighed 2,806 Pounds.**

1285 SOLD IN 1893.

Send for a description of this famous breed. First applicant from each locality will be offered a pair on time and an agency.

**The L. B. SILVER Co.**

CLEVELAND, OHIO.





## TRAVELERS GUIDE.

### Balto. Chesapeake & Atlantic Railway Company

(Consolidation of the Baltimore and Eastern Shore Railroad and the Maryland, Choptank and Eastern Shore Steamboat Companies.)

Ocean City and all points on the Great Chesapeake Bay and its tributaries.

A rich field for the general farmer and trucker.

Unexcelled facilities for both passenger and freight traffic.

Fifteen commodious and handsomely fitted out steamers.

Steamers leave Pier 3, 4 and 4½ Light Street Wharf as follows:

4.30 p. m., daily, except Sunday, connecting with the Railway Division at Claiborne for St. Michaels, Easton, Salisbury and Ocean City and all intermediate points.

8 p. m., daily, except Sunday, for Cambridge, Denton and all points on the Choptank and Tred Avon Rivers.

5 p. m., on every Monday, Wednesday and Friday, for Seaford, Del., and intermediate landings on the Nanticoke River.

5 p. m., on every Tuesday, Thursday and Saturday, for Salisbury and intermediate landings on the Wicomico River.

5 p. m., on every Tuesday and Friday for Freeport, Va., and intermediate landings on the Western Shore of Virginia and Piank-tank River Line.

Steamers leave from foot of South Street as follows:

5.30 p. m., on every Tuesday and Friday for Snow Hill and intermediate points on the Pocomoke River Line.

5.30 p. m., every Wednesday for Ford's, Crisfield, Messongo and intermediate points on the Messongo River Line.

5.30 p. m., every Sunday for Ford's, Crisfield, Rues and intermediate points on the Occohannock River Line.

**B. L. FLEMING, WILLARD THOMSON.**

Gen. Pass. and Freight Agt. Gen. Man.

30½ Light Street, Baltimore, Md.

### Weems Steamboat Company

WINTER ARRANGEMENTS.

For Fair Haven, Plum Point, Governor's Run and Patuxent river as far as Benedict, from Pier 8, Light Street, Wednesday and Saturday, at 6.30 a. m. - Saturday's trip will be extended to Bristol on Monday. Steamer will return on Tuesday and Thursday, arriving in Baltimore about 7 p. m. Freight received Tuesday and Friday.

For Fredericksburg and all Wharves on the Rappahannock river, Friday, at 4.30 p. m. For Tappahannock and intermediate Wharves, Wednesday at 4.30 P. M., Tuesday and Thursday at 2.30 P. M. Freight received at Pier 2, Light Street, daily.

**HENRY WILLIAMS, Agent,**

Office, Pier 2, Light Street.

### Wheeler Transportation Line.

Great Choptank, Trappe and Tuckahoe Rivers.

Pier 5 Light Street Wharf.

Daily except Sundays at 9 P. M. for Trappe, Chancollor's, Clark's, Medford's (Choptank) Lloyd's, Dover Bridge, Kingston, McCarty's Ganey's, Downes', Towers, Williston, Tuckahoe Bridge, Reese's, Coward's, Covey's, Hillsboro and Queen Anne.

#### RETURNING.

Will leave Hillsboro Mondays, Tuesdays, Wednesdays, Thursdays and Fridays at 11 a. m., Covey's 11.30 a. m., Coward's 12 m., Williston 2 p. m., Ganey's 2.30 p. m., McCarty's 3 p. m., Kingston 3.15 p. m., Dover Bridge 3.30 p. m., Medford's [Choptank] 5 p. m., Clark's 5.30 p. m. Trappe 9 p. m. Stopping at Intermediate Landings, arriving in Baltimore early the following mornings.

Steamer leaves Hillsboro Saturdays at 4 p. m. for Williston, leaving Williston Sundays at 7 a. m., Medford's 10 a. m., Trappe 1 p. m. arriving in Baltimore 8 p. m. Sundays. Freight received at Pier 5 Light St., wharf until 6 p. m. daily for all landings.

**E. E. WHEELER, Agent.**

### Chester River Steamboat Co.,

Until further notice, Steamers of this line will leave Pier 7 Light street, as follows:

At 10.30 a. m., Monday, Wednesday and Friday for Rock Hall, Jackson Creek, Centreville and landings on the Corsica river. At 10.30 a. m., Tuesday, Thursday and Saturday for Kent Island, Queenstown, Bogles Quaker Neck, Bookers, Ralphs and Chestertown.

Freight received daily.

**GEORGE WARFIELD, President.**

### Richmond & York River Line.

On and after Tuesday March 5th, steamers of this line leave Baltimore daily (Sunday excepted) at 5 p. m. for Westpoint, Richmond and the South, arriving at Richmond at 10.40 a. m., connecting with trains of the Southern Railway system. Steamer sailing Monday, Wednesday and Friday calling at Gloucester Point and Allmond's Wharf. Steamer sailing Tuesday, Thursday and Saturday calling at Yorktown and Clay Bank.

Through tickets and bills of lading issued at all points on the Southern Railway system. Way freight must be prepaid. Fare to Richmond—1st class, \$2.50; round trip, \$4. Tickets sold and baggage checked at GEIGAN & CO'S, 205 East Baltimore street. E. J. CHISM, G. F. and T. A.

**REUBEN FOSTER, General Manager,**

# TRAVELERS GUIDE.

(SCHEDULE, In effect Jan. 6, 1894.)

## Baltimore and Ohio R. R.

Leave Camden Station.

For Chicago and Northwest, Vestibuled Limited Express daily 10.10 A. M. Express 7 P. M.

For Cincinnati, St. Louis and Indianapolis, Vestibuled Limited Express daily 2.25 P. M., Express 11.00 night.

For Pittsburg, Express daily 10.10 A. M., and 7.30 P. M.

For Cleveland, via Pittsburgh, 10.10 A. M. and 7.30 P. M.

For Washington, week days, 5.00, x6.15, x6.25, 6.30 x7.20, x8.00, 8.35 x10.10, (10.35, A. M., 12.00 noon 45 minutes,) 12.15, x2.10 x2.25, 2.50, (3.45, 45 minutes,) x4.10, 5.00, x6.00, 6.18, x6.40, x7.00, x7.30 x8.00, 9.15, x10.20, x11.40, 11.30 P. M. Sundays, x6.25, 6.30 8.35, x10.10, (10.35, A. M., 12.00 M., 45 minutes,) 1.05, x2.10 x2.25, (3.45, 45 minutes,) 5.00, 6.18 x6.40, x7.00, x7.30 9.15, x10.20, x11.00 and 11.30, P. M.

For Annapolis, 7.20, 8.35 A. M., 12.15 and 4.10 P. M. On Sunday, 8.35 A. M. and 5.00 P. M.

For Frederick, 4.00, 8.10, A. M., 1.15, 4.20 and 5.30 P. M. On Sunday, 9.35 A. M. and 5.30 P. M.

For Luray, Roanoke and all points in the South via N. and W. R. R., 10.20 P. M. daily, Sleeping cars to Roanoke, Chattanooga and New Orleans. For Luray 2.25 P. M. daily.

For Lexington and points in the Virginia Valley, 4.00, 10.10 A. M. For Winchester, 4.20 P. M. Mixed train for Harrisonburg, 4.00 A. M.

For Hagerstown, 4.00, 7.10 10.10 A. M., 4.10 P. M.

For Mt. Airy and Way Stations, 4.00, 7.10, 9.35 A. M., 1.15, (4.20 stops at principal stations only,) 5.30, 6.25, \*11.10 P. M.

For Ellicott City, 4.00, 7.00, 7.10, 9.35, A. M. 1.15, 7.30, 7.40, 9.30, 9.25, 11.10 P. M.

For Curtis Bay, week-days 6.28 A. M., Leave Curtis Bay, week-days 5.45 P. M.

Trains arrive from Chicago, and the Northwest, daily, 3.15 and 6.00 P. M. From Pittsburg and Cleveland, 8.30, A. M., 6.00 P. M.; from Cincinnati, St. Louis and the West, 5.15 A. M., 1.00 P. M., daily.

## Royal Blue Line for New York and Philadelphia.

For New York, Boston and the East, week-days, 5.25, 8.50, (10.48 Dining Car) A. M., 12.55, 3.50, (5.50 Dining Car) 8.55 P. M. (12.47 night, Sleeper attached, open for passengers 10.00 P. M.) Sundays, 5.25 (9.50 Dining Car) A. M., 12.55, 3.50, (5.50 Dining Car) 8.55 P. M., 12.42 night, Sleeping Car attached, open for passengers 10.00 P. M.

For Atlantic City, 5.25, 10.48 A. M., 12.55 P. M. Sundays 5.25 P. M., 12.55 P. M.

For Philadelphia, Newark, Wilmington and Chester, week-days, 5.25, 8.50, (10.48 stopping at Wilmington only, Dining Car) A. M., 12.55, 3.50, (5.50 Dining Car) 8.55 P. M., 12.47 night. Sundays, 5.25 (9.50 Dining Car) A. M., 12.55, 3.50, (8.55 P. M., 12.47 night.

For all Stations on Philadelphia Division, week days, 7.40 a. m., 2.50, 5.00 p. m. Sundays, 8.40 a. m. 5.00 p. m.

†Except Sunday. \$Sunday only. °Daily. xExpress train.

Baggage called for and checked from hotels and residences by Union Transfer Company on orders left at Ticket Offices:

N. W. Cor. CALVERT AND BALTIMORE STS., 230 South Broadway or Camden Station.

R. B. CAMPBELL. CHAS. O. SCULL,  
Gen. Manager Gen. Passenger Agent.

(In effect September 30, 1894.)

## Western Maryland Railroad.

Leave Hillen Station as follows:

\*4.30 A. M.—Fast Mail, Main Line, N. and W. R. R. and South, and ex. Sunday P. V. R. R., B. & C. V. R. R. also Martinsburg and Winchester.

†7.22 A. M.—York and B. & H. Div; also Main Line East of Emory Grove; also, G. and H. R. R.

†8.00 A. M.—Main Line, P. V. R. R., B. & C. R. R.; Emmitsburg and N. & W. R. R.

\$9.30 A. M.—Accommodation for Union Bridge and Hanover.

†10.17 A. M.—Accommodation for Union Bridge York, Gettysburg; also Carlisle, and G. & H. R. R.

†2.25 P. M.—Accommodation for Emory Grove.

2.35 P. M.—Accommodation for Union Bridge.

†3.20 P. M.—Exp. Glyndon, York and B. & H. Div.

\$4.00 P. M.—Accommodation for Emory Grove

†4.02 P. M.—Express Main Line Points, also Emmitsburg, B. & C. V. R. R., P. V. and N. & W. R. R.

†5.15 P. M.—Accommodation for Emory Grove.

†6.15 P. M.—Accommodation for Union Bridge.

\*10.10 P. M.—Accommodation for Emory Grove.

†11.25—Accommodation for Emory Grove.

\* Daily. † Daily ex. Sunday. \$Sunday only.

Ticket and Baggage Office, 205 East Baltimore St.

All trains stop at Union Station, Pennsylvania Avenue and Fulton Stations.

B. H. GRISWOLD, Gen'l Passenger Agent.

J. M. HOOD, General Manager.

## Baltimore & Lehigh Railway.

NORTH AVENUE STATION,

BALTIMORE.

LEAVE WEEK-DAYS FOR CARDIFF—  
7:30 A. M., and 4:00 P. M.

LEAVE WEEK-DAYS FOR BELAIR—  
9:30 A. M., and 5:30 P. M.

SUNDAY FOR CARDIFF—  
9:30 A. M. and 4:00 P. M.

SUNDAY FOR BELAIR—6:30 P. M.

W. A. MOORE, Gen'l Manager.

## Annapolis and Baltimore Short Line R. R.

Leave Camden Station—Week Days:

7:15 a. m., for Annapolis and Way Stations.

8:50 a. m., for Annapolis and Way Stations.

1:10 p. m., for Annapolis and Way Stations.

5:40 p. m., for Annapolis and Way Stations.

Sundays.

8:50 a. m., for Annapolis and Way Stations.

4:30 p. m., for Annapolis and Way Stations.

Trains leave Annapolis 6:45, 8:55, a. m. 12:00 m.,

and 3:50 p. m. Week Days, and 8:55 a. m., and

4:30 p. m. on Sundays.

C. A. COOMBS, General Manager.



**MORNING, NOON AND NIGHT,**

You can leave Grand Central Station, the very centre of the city.

For Chicago, St. Louis and Cincinnati, in a magnificently equipped train,

Via the New York Central,  
The Great Four-track Trunk Line.

Trains depart from and arrive at  
Grand Central Station, New York.

Connecting the east and west,  
by the New York Central Lines,

Chicago is only 24 hours away;  
Cincinnati 22; St. Louis 30.

Eleven through trains each day,  
Practically a train every hour, via

**"AMERICA'S GREATEST RAILROAD."**

**THE GREEN HOUSE,**

East Pratt Street, Baltimore, Md.

J & B. L. WAGNER

PROPRIETORS.

This RESTAURANT is the oldest and most extensive in its accommodations of any in the city

The BAR is filled with the finest of all kinds of LIQUORS. The TABLES are covered with the best substantial food the markets afford, besides, at the earliest moment they can be procured in the different seasons, every variety of delicate that land and water furnish, in

**Birds, Game, Fish, Fruits & Vegetables**

Prices moderate. The crowds, which lunch and dine daily, attest public approbation of the superior management of the house.

It is a convenient place for travelers, who stop only a few hours or a day in the city, to get their meals. It is the popular resort of country gentlemen from the counties, particularly from Southern Maryland, being convenient to Railroads and Steamboats, and in the midst of the business portion of the city.

The proprietors will be grateful for the continuance of the extensive patronage they now enjoy and will do the best to give entire satisfaction to all visitors.



AND  
SAVE  
MONEY

IT IS  
ABSOLUTELY  
**The Best**  
SEWING  
MACHINE  
MADE

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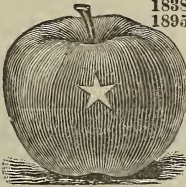
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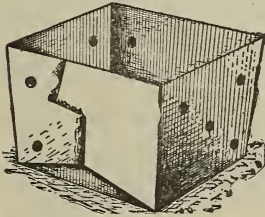
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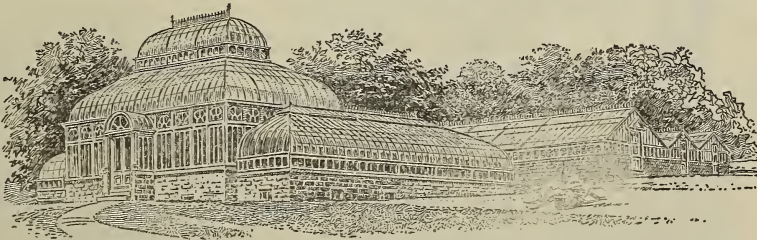
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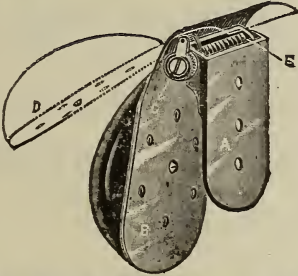
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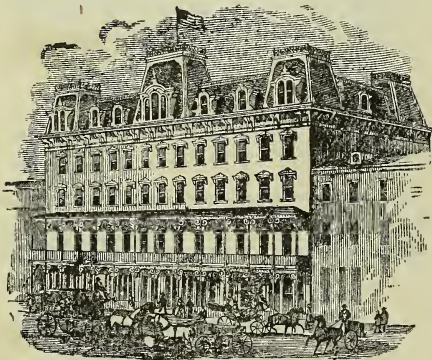
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